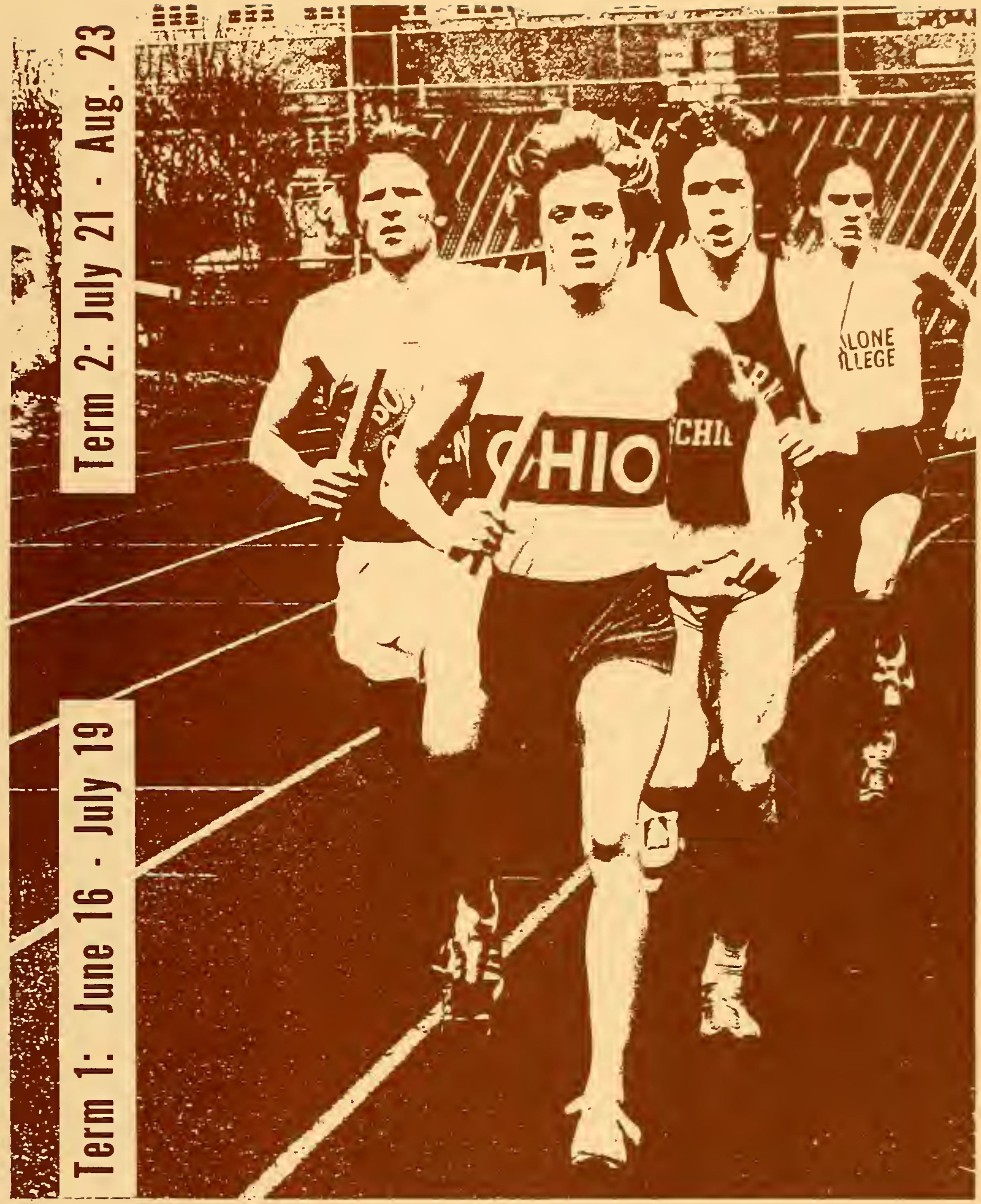
Ohio University



Term 1: June 16 - July 19

Term 2: July 21 - Aug. 23

SUMMER SESSION 1980
BULLETIN

OHIO UNIVERSITY
ATHENS, OHIO

SUMMER SESSION
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Term 1: June 16 - July 19

Term 2: July 21 - August 23

This *Summer Session Bulletin* is a descriptive preview (subject to revision) of the workshops, conferences, special programs, and course offerings planned for the 1980 Summer Session at Ohio University.

The *Summer Session Schedule of Classes*, available for distribution in the spring, will list course times, locations, and instructors, as well as admission and pre-registration information for graduate and undergraduate credit.

Please address any further inquiries to:

Director of Summer Session 1980
303 McGuffey Hall
Ohio University
Athens, Ohio 45701
(614) 594-6233

Produced by the Office of Summer Session, Ohio University
Dr. Edward Mitchell, Director
Editor and Design: Madeleine Saba Hoyt

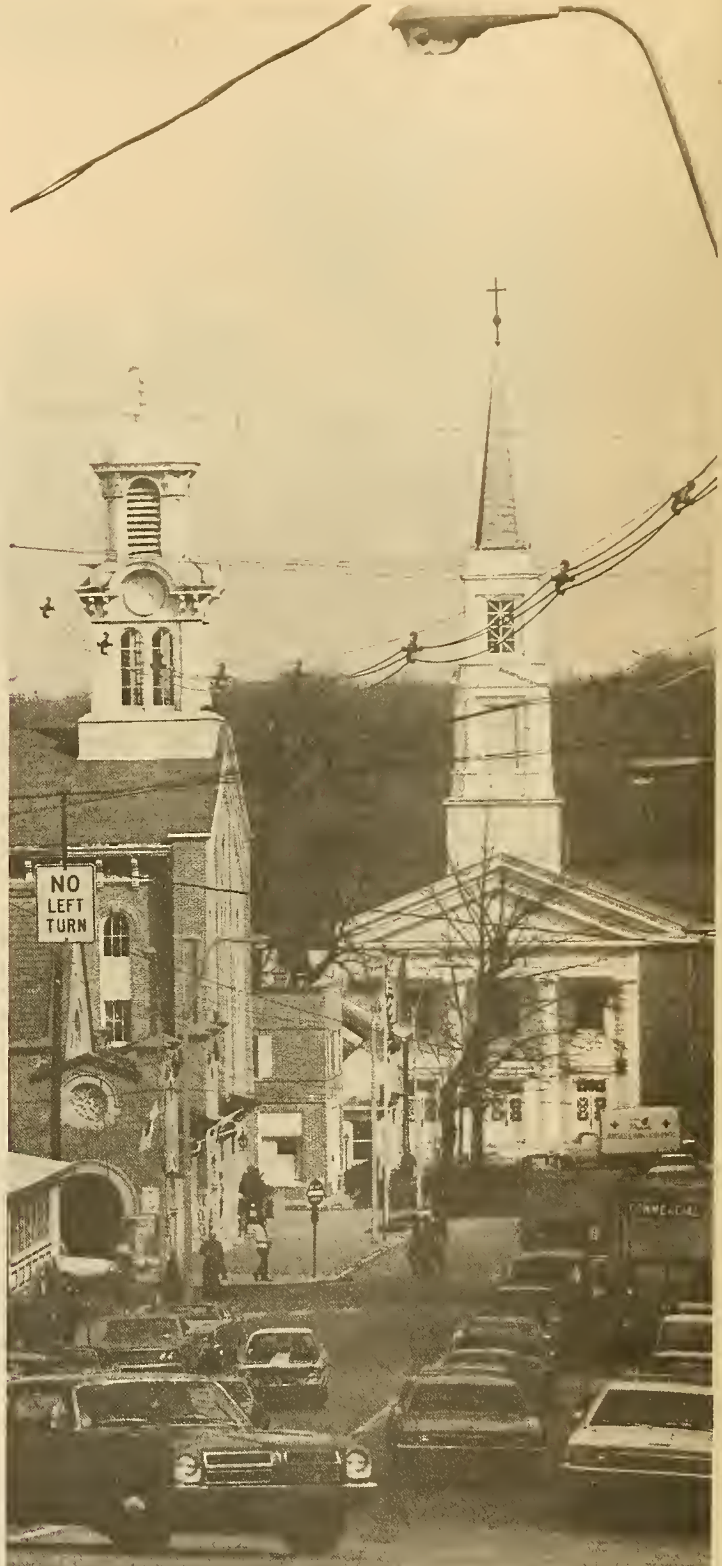
INTRODUCTION

Ohio University, located amidst the rolling green hills of southeastern Ohio, was founded in 1804 as the first institution of higher learning in the Northwest Territory. The school's main campus is centered in Athens, a small, friendly city on the banks of the Hocking River, surrounded by farms, woodlands, and state parks. The beautiful countryside, together with the intense intellectual and cultural activities available, make Ohio University the ideal spot to study, relax, and grow this summer.

For example, to excite your imagination and increase your skills, a wide variety of beginning and advanced courses will be offered for graduate and undergraduate credit during two five-week Summer Session terms. Curricula flexibility allows students to begin or continue regular degree programs, or participate in any of the special credit or noncredit workshops, conferences, and seminars held throughout the summer.

When the day's studies are over, the fine Athens weather may be enjoyed in the six state parks you will find within 25 miles of the university. Facilities for boating, fishing, camping, swimming, and picnicing are featured, as well as nature programs suitable for the whole family. The University and the City of Athens maintain excellent facilities for swimming, bicycling, baseball, basketball, handball, tennis, and golf. In the evenings, theater performances, films, lectures, and concerts are provided to round off another perfect day at Ohio University's unique Summer Session program.

We hope you will join us this summer, in 1980.



It is hard to imagine that when the College Green of Ohio University was in its youth, a city ordinance permitted farmers to graze their sheep there. Today this Green is the core of a flourishing state-supported institution of 14,000 enrollment, one of 28 points of interest on the official Athens City Council Walking Tour. Call: (614) 594-7322.

The Children's Library on the second floor of the university's Alden Library offers a wide variety of books for young people of all ages. Hours are from 9-5 Monday through Friday.

SUMMER SESSION ADMISSION

The courses to be offered for graduate and undergraduate credit at Ohio University's 1980 Summer Session are described in this *Summer Session Bulletin* following the workshops and conferences listing. If you wish to receive the *Summer Session Schedule of Classes* for exact times, locations, and instructors, send in the self-mailing card on the back cover. We will forward the Schedule to you when it is available in the spring.

UNDERGRADUATE CREDIT:

During the summer a non-degree student may pre-register for any undergraduate course without official admission to the University, provided that specific course pre-requisites are met.

To pre-register for undergraduate Summer Session courses as a degree-seeking student, official admission to the University is required.

To pre-register for undergraduate courses with either degree or non-degree status beyond the regular Summer Session (i.e. during Fall, Winter, or Spring quarter), a student must be officially admitted to the University.

The necessary information and application forms for official University admission and pre-registration may be obtained from the Admissions Office in Chubb Hall or by returning the card on the back of this bulletin. We will forward all requested materials to you directly.

GRADUATE CREDIT:

To pre-register for any graduate course offered during the Summer Session, a student must be officially admitted to the University with either degree or non-degree status.

To meet non-degree admission requirements before Summer Session begins, the student need only complete the non-degree seeking application found in the Summer Session Schedule of Classes.

To meet admission requirements as a degree-seeking student in a specific program before Summer Session begins, contact the Graduate College in Wilson Hall, as well as an advisor in your intended Academic Department.

To obtain the Summer Session Schedule of Classes, as well as an application for non-degree seeking graduate status, send in the self-mailing card on the back cover of this bulletin.

DATES, COURSE LOADS, AND FEES

The Ohio University Summer Session is divided into two terms:

1st. Term: June 16 - July 19
2nd. Term: July 21 - August 23

Fifteen to eighteen quarter hours of course work covered during the two terms together is the normal course load for a full-time student. Thus, a full summer's registration is equivalent to one quarter of credit taken during the regular school year.

A complete description of fees will be included in the *Summer Session Schedule of Classes.*

COURSE LISTINGS

The Summer Session courses for undergraduate and graduate credit are listed separately following the section on workshops and conferences.

The catalog number indicates the student classification for which the course is designed. The numbers are:

100-299	Lower division for freshman and sophomores.
300-499	Upper division for juniors and seniors.
500-699	Graduate division for master's degree programs.
700-899	Post-graduate division for doctoral degree programs.

In some cases, these divisions will vary from department to department. If you have any questions concerning the suitability of a particular course, contact an advisor in your Academic Department.

SPECIAL PROGRAMS

In addition to the regularly scheduled courses and workshops, several special study opportunities, including new interdisciplinary master's degree programs, high school tutorial workshops, and travel/study courses, will be offered this summer by different divisions of Ohio University. Please send all requests for information and registration materials to the address provided. Fill out the card on the back cover of this bulletin to obtain information on related Summer Session course listings and registration procedures.

MASTER OF LIBERAL STUDIES

Dates listed below: (5-15 credits/graduate)

Ohio University's master of liberal studies is an interdepartmental program adhering to the ideal of an integrated liberal arts education. The program features core colloquia and pilot courses developed to help each student choose rationally among educational alternatives. With the assistance of faculty advisors, each participant will arrange a pattern of study matching his and her needs and interests, and building on previous academic work and employment experiences. Students are encouraged to pursue relationships among fields of study that are traditionally compartmentalized. The three courses and dates to be given this summer are:

June 15-28 *Introduction to Interdisciplinary Studies* (5 credits)

An examination of the major ways in which knowledge has been integrated and related in the West from Plato and Aristotle to the present day.

July 14-19; July 26; August 2 and 23: *Ways of Meaning* (5)

How symbols work. How perspectives and world views, the actual worlds we live in — worlds of science, arts, and practice — are made; how they are related and how they differ.

August 4-16; August 30: *Decision-Making: Public and Primate* (5)

Explores problem of conflict between individuals and institutions in the 20th century. How should individuals reconcile demands of conflicting responsibilities to self, family and society? To what extent should governmental policies express the will of the majority?

For further information please write:

Professor Ed Quattrocki, Director MLS
Room 203, McGuffey Hall
Ohio University, Athens, Ohio 45701

ACCELERATED MBA SUMMER WORKSHOPS

The MBA Summer Workshops give recently-admitted MBA candidates and other interested graduate students a special opportunity to complete eight of the major foundation courses in business administration in just twelve weeks.

Accelerated workshop courses, constituting part of the graduate prerequisites that students must take before moving into the advanced portion of the MBA program, will be offered this summer according to the following tentative schedule:

June 16 - July 3:
    Accounting Principles I (3 credits)
    Management (3)
July 7-25:
    Accounting Principles II (3)
    Marketing Principles (3)
July 28 - August 15:
    Fundamentals of Economics (3)
    Managerial Finance (3)
August 18 - September 5:
    Production Management (3)
    Statistical Foundations (4)

The complete MBA Summer Workshops package allows fulltime MBA students to earn their degree in approximately one calendar year, instead of two; reduces the overall time needed by part-time MBA candidates; and offers graduate students and professionals in other areas a convenient way to build an initial background in business and administrative skills useful in career choice and mobility. Applicants do not have to sign up for the entire workshops program in order to attend less than the full summer schedule.

For further information, please call or write:

Director of Graduate Programs
College of Business Administration
106-A Copeland Hall, Ohio University
Athens, Ohio 45701
(614) 594-5446

EVENING SUMMER SCHOOL IN JOURNALISM

June 16 - July 19 (3-12 credits/graduate or undergraduate)

A newly organized program consisting of four recently developed courses which are being offered in addition to the regular Journalism schools' summer curriculum. Designed to appeal to the non-traditional student seeking an emphasis on mid-career skill development, as well as to those professionals needing training to meet a job requirement for certain skills or prepare for a particular job interest, these full first-term summer courses will be held during evening hours so that working individuals may attend. Using a combined seminar workshop format, topics in writing, graphics, publicity, promotion, broadcast news and human communication will be presented, including with each a survey of the latest theories, historical backgrounds, and actual ongoing professional activities. The courses are also open to adults in business, government, and other professional fields, and to students in such out-of-journalism areas as social workers, medical services, and education.

XALAPA XV
SUMMER IN MEXICO

June 18 - August 9 (16 credits/graduate)

The Xalapa XV program is designed for the serious student interested in enriching his knowledge of the Spanish language and Latin American culture through total immersion in the life of a typical Mexican city. Spanish language teachers, and students with one year's previous experience in Spanish or its equivalent, either as majors or nonmajors, will work in close contact with their professors and are expected to participate in the cultural activities and excursions available in the city of Xalapa, Veracruz. Intensive courses in intermediate and advanced Spanish, and Spanish history, anthropology, and archaeology will be given with assignments appropriate to the course level. Students will be housed with exchange families living in the immediate area. For information on fees, housing, and transportation, contact the Modern Languages Office, 220 Ellis Hall, (614) 594-5096. *Registration Deadline: May 1, 1980.*

AUSTRIAN INSTITUTE FOR THE STUDY OF AMERICAN CULTURE

A newly drafted program for Austrian-German students interested in visiting Ohio University for the purpose of studying American culture for a period from 6-8 weeks.

An interdisciplinary approach will be pursued in plenary sessions, seminars, tutorials, and summary colloquia designed to integrate the apparently disparate aspects of American life. Primary study areas will include: American Literature and Language, Philosophy, History and Political Science. Secondary academic foci for other disciplines will be presented in a series of four to six lecture/discussion sections, held by appropriate university faculty, on literature, arts, economics, politics and popular culture. A series of direct cultural excursions and experiences will be provided incorporating sponsorship by host families, university and community events, local field trips, and long distance tours. The institute will be publicized at Graz and other Austrian universities, as well as the Universität Göttingen in Germany. Approximately twenty to thirty enrolled students are expected.

In Athens County, visit three scenic covered bridges dating from the late 1800's: The Blackwood Bridge, spanning the Shade River, is located 2.8 miles east of Pratts Fork on County Road 46....The Palos Bridge, spanning Sunday Creek, is located 2.3 miles sourh of Burr Oak Lake just east of State Route 13 on Township Road 347....Kidwell Bridge, also spanning Sunday Creek, is located 1.5 miles South of Redtown, west of State Route 13 on Township Road 332.

SUMMER WORKSHOPS

The Office of Workshops, Conferences, and Institutes at Ohio University offers an extensive schedule of workshops and conferences on a wide variety of topics during the summer months. The program listed below is a tentative one, subject to revision. The workshops included range from a day to several weeks and would interest school teachers, college students, young children, and working professionals and their families. The courses are available for graduate or undergraduate credit, or non-credit certificate as described.

All programs offered for graduate or undergraduate credit carry a tuition fee. Information on summer tuition may be obtained from the *Summer Session Schedule of Classes* or by contacting the address below. In most cases, to calculate the approximate total cost of a specific workshop, multiply the applicable rate per credit hour by the number of credits taken and add any additional fees required for materials, transportation, or room and board as noted.

Workshop participants are advised that workshops often entail special fees beyond the cost of tuition, or carry comprehensive enrollment fees applied instead of the regular per credit tuition charge. When available, these Additional Fees and Comprehensive Fees are included in the workshop description, along with whatever Alternative Fees have been allotted for a non-credit enrollment option.

For complete information on workshop programs, fees and registration materials please contact:

Andrew Chonko, Director
The Office of Workshops, Conferences and Institutes
301 Tupper Hall, Ohio University
Athens, Ohio 45701
(614) 594-6851
Or call toll free in Ohio: 1-800-282-4405

Strouds Run State Park is five miles east of Athens off US 50. Swimming, fishing, small motor boating and scuba diving at Dow Lake; hiking and bridle trails, nature program, picnic shelter, shooting range, camping and hunting, too. If you can't run there, take your bike!

TEACHING THE LITERATURE OF NEW ENGLAND
(with tour)

May 10; June 23-28; August 30 (3 credits/graduate)
(3-5 credits/undergraduate)

An exciting travel-study opportunity for English and language arts teachers at all levels, combining booklist readings, a written travel journal, and research paper on the application of tour experiences to the teaching of American literature. The 5-day literary and fine arts tour of New England will explore landmarks of cultural influence and biographical significance related to a variety of literary genres native to this area. Pre-tour and post-tour seminars will integrate and evaluate presentational techniques available for classroom implementation. Approximate Fee: $675. *Registration Deadline: May 1, 1980.*

FAMILY COUNSELING

June 9-13 (3 credits/graduate)

An intensive five day workshop for graduate students in guidance and counseling, and professional community counselors and therapists practicing in a variety of mental health and social service fields. Using both lecture and laboratory techniques, class members will receive descriptive, evaluative, and practical interpretations of selected models available for family therapy and counseling groups. Outside readings, textbook assignments, and a term paper will be combined with the utilization of students to form a family constellation for role-playing experience in laboratory counseling.

TECHNICAL WRITING FOR WRITING ON THE JOB

June 9-13 (4 credits/undergraduate)

A workshop for business managers, industrial and retail supervisors, teachers, students, and other individuals who regularly write letters, memos and reports as part of their jobs. The intensive five-day course will develop mastery of several standard formats for transmitting and writing more effective letter reports; will improve communication through defining purpose and identifying audience; will assist participants in acquiring better general writing skills; will review use of visual aids and strategies for successful oral communication; and will focus on the participants' specific on-the-job writing requirements in individualized lab session projects. *Registration Deadline: May 15, 1980.*

THEATER/DANCE WORKSHOP

June 7-27 (5 credits/graduate or undergraduate)

A unique program for college theater majors, and dance and musical theater students, offering a complete range of theater dance and choreography styles in one intensive group experience. The course work will include vocabulary movements and full routines in jazz, ballet, modern, theater dance, mime, and tap, as well as evening composition work choreographed by the workshop faculty. The projects and exercise assignments required of participants are intended to strengthen training and performance techniques at all levels and in all traditions of the art. *Registration Deadline: May 19, 1980.*

TALENTED AND GIFTED PROGRAMS IN PHILOSOPHY

June 12-13, 19-20 (3 credits/graduate or undergraduate)

A workshop for actual or potential public school teachers in Talented and Gifted programs using philosophy as a newly included addition to an "enriched", rather than merely "accelerated", course of study. The two weekends of instruction will provide training in the implementation of philosophy textbook materials for public schools prepared by the Institute for the Advancement of Philosophy for Children (Harry Stottlemeir, Lisa, and Suki), which will be used in the Ohio University Philosophy department's TAG programs at the Trimble and Amesville schools this year. TAG co-ordinators, school administrators, and school board members may also find exposure to these highly successful teaching resources useful in their personal and professional careers. *Registration Deadline: July 7, 1980.*

INNOVATIVE CLASSROOM MATERIALS AND CRAFTS

June 14-25 (3-6 credits/graduate or undergraduate)

This creative and instructional workshop is designed to provide elementary and secondary school teachers, special education teachers, rehabilitation supervisors, therapists and aides experience in the development of innovative instructor-made materials and selected arts and crafts projects that can be effectively utilized in classrooms, hospitals, and clinics. A diversity of specific interest stations offering materials, samples, and basic hands-on participation opportunities will be an integral part of the program. Additional Fee: $25 for materials. *Registration Deadline: June 30, 1980.*

SUMMER LANGUAGE CAMP

June 15-21 (1-3 credits/undergraduate)

For high school and well-prepared middle school students who have studied French or Spanish for at least one year, a complete immersion program emphasizing language skills practice and foreign cultural/recreation activities. Students will live in a total language atmosphere for one week, participating in informal conversation groups, class projects, folk-dancing, singing, films, cooking, sports and games. The program will be conducted by experienced high school and college teachers and native instructors. Comprehensive Fee: $99 which includes room and board. *Registration Deadline: May 30, 1980.*

SUMMER MUSIC INSTITUTE FOR HIGH SCHOOL AND COLLEGE STUDENTS

Dates listed below (1-3 credits/graduate or undergraduate)

Intensive musical instruction in the high school summer institute includes private classes, master classes, ensembles for like and families of instruments, reed-making and instrument maintenance when applicable. Each division of the *high school level* sections will culminate its session with a public recital. The classes in piano and harp are open to grades 7 and up, while students in grades 9 and up may enroll in all other areas as listed below. One optional university credit per week is available to juniors and seniors for $35 per hour. Comprehensive Fee: $125 per week for residents (incudes room, board, and lessons) and $80 per week for commuters. *Registration Deadline: June 9, 1980 for percussion, wood winds, piano and voice; June 15, 1980 for strings and harp.*

For each hour credit per week, the *college student* will be expected to spend a minimum of 10 hours participating in the Summer Music Institute in one or more of the following areas: supervised coaching of ensembles, private lessons, master classes, reed-making groups, research of solo or ensemble repertoire, and transcription of suitable ensemble material. The program is intended to allow music majors and area music teachers an opportunity to work with the serious students at the university level. *Registration Deadline: same as above.*

Percussion:	June 15-20
Woodwinds:	June 15-21
Piano and organ:	June 15-21
Voice:	June 15-28
Strings:	June 22 - July 12
Harp:	June 29 - July 12

TELEVISION PROGRAMMING AS AN EDUCATIONAL TOOL

June 16-18 (3 credits/graduate or undergraduate)

For broadcasting students, educators, and public school teachers, this seminar is designed to develop skills and methods for the productive use of television programming as an educational tool in the classroom. It introduces participants to the related literature, explores methods for studying and understanding television programming, increases media literacy, and assesses theories of communication as background for using TV programs in the classroom. Though television programming is presently considered a negative influence on children, this course explores ways of productively using it to educate and constructively entertain. *Registration Deadline: June 16, 1980.*

HUMAN SEXUALITY AND THE DEVELOPMENTALLY DISABLED

June 16-20 (3 credits/graduate or undergraduate)

A workshop combining a general overview of human sexuality with an analysis of the specific sexual problems and requirements of the developmentally disabled. A special emphasis on specific management techniques, moral issues related to sex, and ways to handle sex education will be included. Participating special education teachers, therapists, administrators, and aides will complete individual projects directed toward better fulfilling their professional responsibilities and personal goals. *Registration Deadline: May 30, 1980.*

NEWSPAPER PICTURE EDITING

June 16-20 (4 credits/graduate or undergraduate)

An advanced picture editing course for working newspaper personnel only, designed to upgrade their professional skills and/or prepare them for work as picture editors. Topics to be covered include: the economics, organization, motivation, and legal problems of newsphoto departments; the development of better picture ideas and more effective assignments; the cultivation of national freelance contacts and wire service coverage; specific suggestions on picture selection, cropping, sizing, and layout for maximum impact; an out-look on the photojournalism technology of the future; and recommendations for recruiting, training, and retaining competent photographers. A critique of each participant's newspaper's use of pictures will be included, with the goal of helping staffers make improvements in their publications' use of pictures when they return to work. *Registration Deadline: June 1, 1980.*

CONTEMPORARY ISSUES IN AGING

June 16-20, 23-27 (3 credits/graduate or undergraduate)

In conjunction with the new Rural Gerontology Training Project, this workshop offers a basic introduction to current concepts, issues, and problems in gerontology as represented in the disciplines of psychology, sociology, social work, home economics, the family, health care, and nursing, with a more intensive examination of related problems developed in small research groups. Financial aid is available for qualified teachers, clergy, nurses, agency personnel, health professionals, lawyers, practitioners, and especially those currently working in aging related occupations, caring for the elderly, or concerned with issues affecting senior citizens. Alternative Fee: $90 for non-credit. *Registration Deadline: June 6, 1980.*

THE ECONOMIC AND MEDICINAL PLANTS OF SOUTHEASTERN OHIO

June 16-27 (3 credits/graduate or undergraduate)

Rev. Manasseh Cutler, co-founder of Ohio University, produced and published in 1785 one of the first scientific treatises on the plants of New England. His background and training enabled him to understand the great practical value of such indigenous flora as arbutis, lobelia, coltsfoot, sweetflag, ginseng, digitalis, wild marjoram, angelica, pennyroyal, spicebush, veronica, rattlesnake plantain, and solomon's seal. This summer workshop on Manasseh Cutler's manuscript will be offered to students, teachers, and interested members of the community focusing on the history, identification, preparation, and uses of these plants. Their economic and medicinal value will be rediscovered through class field trips and group lectures. Alternative Fee: $30 for non-credit certificate.

If you're a bird watcher go to Burr Oak State Park, located on State Routes 13 and 78 in Athens and Morgan counties. Boating, fishing, hunting, biking trails, nature programs, picnicing, swimming, scuba diving, camping and cabins for rent, and nearby golf are all available. Burr Oak State Lodge offers rooms, swimming pool, tennis marina, and seasonal cottages.

INDIVIDUALIZATION OF EDUCATION

June 16-27 (5 credits/graduate or undergraduate)

The purpose of this intensive two week course is to assist elementary, vocational, and secondary school teachers in becoming competent in individualization of education of students, using films, lectures, large and small group discussions, resource materials, and personal feedback sessions. Participants will become thoroughly knowledgeable on such important topics as: components for individualization, multi-unit organization, teacher roles and responsibilities, teaming skills and grouping patterns, reporting teaching experiences, writing instructional objectives, understanding and comparing modes of learning, learning styles, centers, and systems, and practical experience in methods of assessment. The ultimate goal will be preparation of an individualized instructional package geared to a diversity of students.

BASIC THEATER WORKSHOP FOR HIGH SCHOOL TEACHERS

June 16-28 (6 credits/graduate)

This workshop will provide a refresher course of study and a source of new materials and practical approaches to training young actors, developing productions, and planning programs for high school teachers *without* extensive theater experience. The two-week curriculum will include participatory training in movement, voice and acting, and seminars in technical production and directing. Topics to be covered are: text selection, preparation, and scoring analysis; audition materials and techniques; exercises for strengthening voice; body and expressive mobility; improvisation and ensemble work; scenic design ideas; creative lighting; and new resources in props and set materials. *Registration Deadline: May 19, 1980.*

PRODUCTION POTTERY: TECHNIQUES AND AESTHETICS

June 16 - July 18 (5 credits/graduate or undergraduate)

A series of lectures, projects and field trips on production pottery techniques, such as the basic forming methods of throwing, slab-building, casting and press molding, for individuals interested in becoming independent, self-supporting craftsmen. Nationally recognized visiting artists will cover topics on materials and formulas for salt glazing porcelain and stoneware, professional practices and marketing methods, taxes and bookkeeping, studio layout and equipment, and the future outlook for small business artisans. Field trips and critiques of student projects will emphasize the achievement of a responsive awareness concerning quality in standards of design and personal aesthetic goals. Alternative Fee: $175 for non-credit certificate. *Registration Deadline: May 19, 1980.*

TELEVISION AND THE FAMILY

June 16 - July 18 (2-3 credits/graduate or undergraduate)

For parents, teachers and college students in education and radio-television, this course examines the educational and recreational uses and psycho-social effects of television in the American home. This evening workshop, designed for the convenience of working people and extension division or continuing education enrollees, offers strategies for coping with television's impact on the general public, particularly the young, and suggests ways to constructively use the medium's varied content in developing a healthy and realistic perspective. Alternative Fee: $50 for non-credit certificate. *Registration Deadline: June 1, 1980.*

PROJECT BREAKTHROUGH

June 16 - July 19 (10 credits/graduate)

Project Breakthrough is a competency-based teacher re-training project aimed at enhancing teacher skills in working with children with learning and/or behavioral problems. It provides instruction and practical applications of evaluative, diagnostic, and prescriptive programming, and the opportunity to work with and plan for an individual child in a tutoring situation. Students will also daily observe and participate in large and small group instruction in a demonstration classroom. The course is intended for elementary classroom teachers and graduate students in speech and hearing, education, and school psychology. Additional Fee: $35 for general costs. *Registration Deadline: June 10, 1980.*

SUMMER FIELD SCHOOL IN ARCHEOLOGY

June 16 - July 19; (12 credits/graduate or undergraduate)
July 21 - August 23

The summer field school in archeology will offer an introduction to archeological field methods through field experience in excavating and testing an archeological site in Athens County. The second session will focus on laboratory analysis of the artifactual material collected on the field during the first session. The school is open to anthropology and social science majors, public school teachers, community members and high school students interested in an experience of scientific archeology not currently available in the regular anthropology department program. Additional lectures and outside readings will be combined with the fundamentally field-based approach. *Registration Deadline: May 26, 1980.*

ADVANCED TOPICS AND SKILLS IN AGING

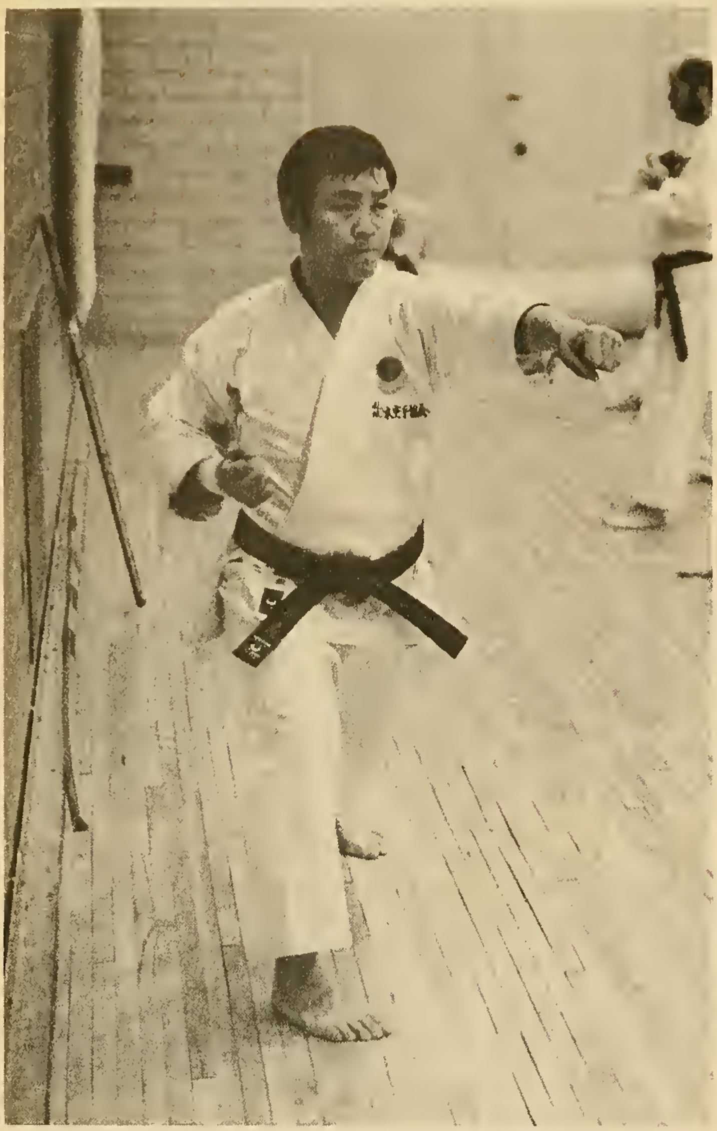
June 18-27 (approx.) (3 credits/graduate or undergraduate)

As part of the new Rural Gerontology Training Project, a variety of advanced workshops are being developed in aging, designed especially for the improvement of practitioner and other job-related skills for those working with the elderly or interested in working with programs for the aged. In this particular summer workshop, examples of topics to be discussed are personnel administration, nursing home management, policy formation, and human relations skills. Financial aid will be available for qualified individuals, perferably those currently working in an aging-oriented social service occupation, in health and therapy for the elderly, or in other areas concerned with issues affecting senior citizens. *Registration Deadline: April 18, 1980 (financial aid preference) and June 26, 1980 (mailed application).*

CONCEPTIONS OF DEATH

June 21-22, 28-29 (3 credits/undergraduate)

A two-weekend workshop for middle-aged and senior citizens, students and professionals dealing with the public and private effects of facing the inevitability of death. Through discussion and readings, the group will be introduced to man's traditional views of death and the afterlife as represented by several major historical, cultural, religious and philosophical perspectives. Two brief papers will allow individual insight and focus on this personal problem in terms of the dominant cultural approaches investigated. *Registration Deadline: June 16, 1980.*



HIGH SCHOOL PUBLICATIONS WORKSHOP

June 22-27 (2 credits/graduate and undergraduate)

For high school students who have completed their junior year, 25 workshop sections are offered in Yearbook Preparation, Newspaper and Newsmagazine, Yearbook Business, and Photography. For advisors to high school publications wishing to enhance their journalistic skills, a series of seminars in advising, plus participation in special instructional presentations to the student sections on Yearbooks and Newspapers only. There will also be an advisors' division option of an additional 1-3 credits for a project completed later in the summer. *Registration Deadline: June 9, 1980.*

TEACHING STRATEGIES IN A PLURALISTIC SOCIETY

June 23-25 (3 credits/graduate or undergraduate)

The purpose of this course is to equip classroom teachers with the tools and teaching strategies necessary to help urban and rural school children, relocated as a result of recent desegregation mandates, to improve basic mental skills and become more aware and appreciative of their own identity as members of minority racial, language or religious groups. The workshop will consist of cluster committees involving university faculty from different areas, using an interdisciplinary approach with assistance from professional outside consultants. Through audio-visual materials and art forms, the teachers will be shown how the schools may be instrumental in helping to create and maintain a pluralistic society. Additional Fee: $7.50 for guest banquet. *Registration Deadline: June 16, 1980.*

URBAN AND RURAL DEVELOPMENT STRATEGIES FOR THE EIGHTIES

June 23-26 (5 credits/graduate or undergraduate)

A colloquium and workshop examining issues and strategies for solving the problems of urban and rural development in the coming decade. Educators, community service workers, researchers, elected officials, and civil service workers will exchange ideas and insights on the future management of unemployment, housing, health and welfare, overpopulation and economic underdevelopment. *Registration Deadline: June 2, 1980.*

PUBLIC POLICY ISSUES AFFECTING EDUCATION IN OHIO

June 23-26 (5 credits/graduate or undergraduate)

A colloquium and workshop examination current public policy issues affecting the financing of public schools and public school desegregation in the state of Ohio. A panel of nationally recognized discussants representing the effected communities will address participants on a variety of topics. The workshop is directed towards public school teachers and administrators, municipal officials, school board members, parents and political science students. Alternative Fee: $75 for non-credit certificate. *Registration Deadline: June 2, 1980.*

MAINSTREAMING IN ELEMENTARY AND SECONDARY CLASSROOMS

June 23-27 (3 credits/graduate or undergraduate)

A faculty from ten fields in education will team teach, demonstrate and discuss mainstreaming in the public schools. Topics to be included are: 1) the definition, philosophy, laws, and standards of mainstreaming; 2) the definition, characteristics, and identification of the handicapped; 3) strategies for creating attitude changes and greater public acceptance of the handicapped; 4) program models for educating the handicapped; 5) general and specific educational methods and materials for each field area; and 6) an outline of staff roles, responsibilities, and skills important to mainstreaming in the elementary and secondary school classroom. Individuals in any level of public school teaching, or special education, speech and hearing, physical education, home economics, or the health related professions will find this a valuable learning experience. Alternative Fee: $50 for non-credit certificate. *Registration Deadline: June 10, 1980.*

ALL ABOUT TELEVISION FOR TEACHERS

June 23-27 (3 credits/graduate or undergraduate)
Elements of Instructional Television Production
June 30 - July 3 (3 credits/graduate or undergraduate)
Methods of Teaching With and About Electronic Media
July 7-11 (3 credits/graduate or undergraduate)
Critical Viewing Skills: Positive Uses of Television

The School of Radio-Television in conjunction with the Telecommunications Center offers this 3-part moduiar workshop for elementary and secondary school teachers, media specialists, librarians, and graduate students on both a credit and non-credit basis. The three-week course of study provides a comprehensive overview of television in the classroom with each individual module or combination of modules serving the different needs of prospective participants. Students may enroll in any or all of the courses in the series. *Registration Deadline: June 1, 1980.*

GEOLOGY FIELD CAMP

June 23 - August 6 (9 credits/graduate or undergraduate)

The Geology Field Camp is a challenging travel-study opportunity to Eureka, Nevada for college science majors with an integrated background in the principles of historical, physical, and structural geology, and the general concepts and reporting methods used in stratigraphy, paleontology and mineralogy. Geologic mappings of faulted and folded Paleozoic sedimentary rocks, Mesozoic and Cenozoic intrusive and extrusive rocks, and additional mapping exercises in metamorphic and glacial geology will be made at the site. Data collecting, field reports, and stratigraphic section analyses will be completed at the camp and afterwards. Contact the Workshops Office for information on fees. *Registration Deadline: April 1, 1980.*

ADMINISTRATION AND ORGANIZATION OF SPECIAL EDUCATION

June 28-29; July 11-12, 25-26; August 8-9 (4 credits/undergraduate)

Four weekend workshops devoted to exploring features and considerations inherent in the general organization and practical management of special education programs, in topics particularly useful to school psychologists, superintendents, administrators, principals, curriculum supervisors, school counselors, and teachers at all levels, both public and private. Consultants who are currently engaged in the administration of special education programs will discuss and elaborate on diagnostic procedures, pending legislation, research implications, community and professional resources, grant writing techniques, facilities and personnel, planning goals and budget requirements, as well as an outline of general historical perspectives. *Registration Deadline: June 6, 1980.*

URBAN/RURAL DESIGNS FOR THE MULTI-ETHNIC CURRICULUM

July 7-12 (4 credits/graduate or undergraduate)

The goal of this workshop is to provide participants with a prescribed plan of action for implementing an effective multiethnic program curriculum, and to further point out the significance of their own levels of ethnicity in the process of effective curriculum design. Leading authorities in the area of multiethnic studies will introduce teachers, administrators, ethnographers, school board members, parents and citizens interested in quality education to the various stages and methods for testing ethnicity, supplemented by guidelines for the effective design, development, and use of successful finished group curriculums and mini-curriculums in their own school systems. Stress on the importance of the human person will be the highlight of this course. Additional Fee: $6 for luncheon. Alternative Fee: $35 for non-credit certificate. *Registration Deadline: June 23, 1980.*

ADVANCED THEATER WORKSHOP FOR HIGH SCHOOL TEACHERS

July 7-19 (6 credits/graduate)

This workshop will provide an intensive refresher course of study and a source of new materials and practical approaches to training young actors, developing productions, and planning programs for high school teachers with previous theater experience. The two-week curriculum will include participatory training in movement, voice and acting, and seminars in technical production and directing. Advanced topics to be covered are: problems of style; introducing young actors to premodern drama; scansion of premodern verse drama; developing personalization through improvisation and paraphrase; and specialized research problems. *Registration Deadline: May 19, 1980.*

NATIONAL FORENSICS WORKSHOP

July 13-26 (3 credits/undergraduate)

The NFW is designed for those high school students in Ohio, Pennsylvania, Indiana, Michigan, West Virginia, and Kentucky who are interested in debate and/or participation in other individual forensic events. Involvement in several typical forensic projects will provide the student with the skills and materials needed to effectively begin the new forensic year with his/her team. The workshop will be staffed by college professionals who are experienced in both high school and college level forensic activities using intense one-to-one coaching methods, as well as a variety of feedback from oral and video-tape equipment. *Registration Deadline: June 23, 1980.*

NATIONAL FORENSICS WORKSHOP FOR TEACHERS

July 13-26 (3 and 4 credits/graduate)

The two classes, "Directing Forensics" and "Theories of Argument," were created for the high school or college instructor in Ohio, Kentucky, and West Virginia who is involved with running a school forensics program. The workshop participants will have the opportunity to evaluate and solve contemporary problems and situations encountered today in forensics and the teaching of argument. Working closely with students concurrently enrolled in the national high school forensics workshop, a range of topics including extemporaneous speaking, oral interpretation, oratory and debate, management of tournaments and contests, and principles of coaching and judging forensic events will be covered. *Registration Deadline: June 23, 1980.*

CLASSROOM VIDEOTAPE UTILIZATION

July 21-25 (4 credits/graduate or undergraduate)

This workshop is planned to help teachers, media specialists, administrators and students develop skill in the techniques of adapting educational television and media facilities to classroom use. In addition to lectures focusing on video technology in education, the course will cover nomenclature and operation of equipment for videotape production in the schools using both ½ and ¼ inch formats. Participants will record and incorporate one broadcasted educational television program into a class mini-lesson, collaborate with a team to produce an original educational videotape, and discuss other possible teaching/learning applications in their school or library.

SCHOOL LAW FOR TEACHERS

July 21-25 (4 credits/graduate or undergraduate)

Primarily for public school teachers in the southeastern Ohio and tri-state region, this inter-session workshop will cover a range of subjects and concepts related to acquiring an understanding of basic educational law, as well as a practical knowledge of a teacher's legal rights and responsibilities and an awareness of the changing attitudes of the courts towards cases involving public schools. The instructional staff, composed of teachers, lawyers, and university faculty, will present and discuss selected readings and actual case histories relevant to the problems of discipline, violence, crime, and personal lawsuits.

VOCATIONAL EDUCATION FOR THE HANDICAPPED

July 21 - August 1 (5 credits/graduate or undergraduate)

This workshop features instructional lectures by staff and visiting professionals, two full-day field trips, class and individual assignments, and other activities for special vocational and regular education teachers, high school and vocational rehabilitation counselors, work-study and O.W.E. coordinators, sheltered workshop staff, school administrators, and graduate majors in special education, counseling, and school psychology. The nation-wide input, with specific suggestions and guidelines for implementation in Ohio, and the hands-on experience not usually available in undergraduate programs, make this a valuable addition to the regular Ohio University course on vocational education given during the school year. Additional Fee: $12 for field trips. Alternative Fee: $90 for non-credit certificate. *Registration Deadline: June 25, 1980.*

PUBLIC ADMINISTRATION DECISION MAKING

July 24-25 (2 credits/graduate)

A workshop intended to enhance and demonstrate the decision making skills needed by public administrators through increased understanding of the decision making process as it relates to the execution of public policy and public programs. Particular attention will be focused on effective decision making as it applies to public administration, as opposed to management in the business sector. The course will primarily interest current public administrators and Ohio University graduate students in public administration. Alternative Fee: $100 for non-credit certificate. *Registration Deadline: July 7, 1980.*

OHIO UNIVERSITY FIRST ANNUAL WRITER'S CONFERENCE

July 24-26 (2 credits/graduate or undergraduate)

In response to the growing public interest in contemporary literature, this new program features a three-day writers' conference using the reputation and appeal of resident writers at Ohio University, members of the creative writing department, and contributors to *The Ohio Review*, supplemented by input from visiting writers of national acclaim and visibility. The conference will consist of workshops, individual discussions, lectures, readings, manuscript consultations, and a panel presentation of editors and publishers addressing the problems and policies of literary publications. Those most likely to benefit from involvement would include Ohio poets-in-the-schools, members of poetry and writing societies, area school teachers, and individuals who write for and/or subscribe to the many large and small literary journals now in circulation. Alternative Fee: $60 for non-credit certificate. *Registration Deadline: July 11, 1980.*

MITCO: MINORITY INTRODUCTION TO COLLEGE

July 27 - August 9

This two week program for minority high school students from Ohio presently between their junior and senior year provides an intensive introduction to today's college experience. In six hours of preparatory classes, taught daily by Ohio University faculty and staff, the students will cover a variety of regular curriculum topics, including Journalism, Computer Science, Business Management, Engineering, Medicine, Mathematics and Afro-American Studies. Specialized personal career counseling and an honors tutorial option for in-depth study will be available. A completed application and letter of recommendation from a school counselor or teacher is required. *Registration Deadline:* June, 1980.

INTRODUCTION TO LIBRARY COMPUTER NETWORK SYSTEMS

July 28 - August 1 (3 credits/undergraduate)

This workshop is intended to introduce media specialists, teachers, and the general public to the way in which computers can serve the patron and the library staff. The OCLC on-line system will be the basis of the group's workshop discussions and hands-on experience. During individual hours arranged for practice, participants will be required to search titles of print and non-print materials using the OCLC system. Alternative Fee: $50 for non-credit certificate. *Registration Deadline: June 1, 1980.*

FIELD STUDIES IN HYDROLOGY

July 28 - August 15 (6 credits/graduate or undergraduate)

Field hydrology is an intensive workshop for the practicing professional working in this country for private and governmental organizations, for the special consultant engaged in the design of well-fields abroad, for those physical science students in training here from developing countries, and for other individuals interested in geology, coal hydrology, and engineering. The course will offer a practical and advanced curriculum in the techniques of water hydrology and resource evaluation, with field training and lab experiences geared towards the solution of basic hydrological problems and professional activities. Alternative Fee: $210 (undergraduate) and $300 (graduate) for non-credit certificate. *Registration Deadline: June 15, 1980.*

Waterloo Wildlife Area at the junction of State Route 56 and 356 at New Marshfield, ten miles west of Athens, is a 1,355 acre tract with 6-acre lake for hunting and fishing.

USING THE ARTS TO TELL A STORY

August 4-8 (3 credits/graduate or undergraduate)

A creative learning workshop for school teachers at all levels, media specialists, librarians, students, parents and those who love children and children's books. New ideas, innovative materials, and alternative approaches to the use of graphic art, music, drama, storytelling, and poetry as a means for the presentation and sharing of books and reading experiences will be demonstrated. Visiting consultants and a professional book illustrator will lecture and advise participants in the preparation of their own book-talk package, to be assembled at the workshop in a medium of their choice.

NUTRITION EDUCATION METHODS FOR ELEMENTARY TEACHERS

August 4-8 (2 credits/graduate or undergraduate)

This workshop is designed to encourage area elementary school teachers to incorporate topics on nutrition into their regular class curriculum. Focus on using real food demonstrations, effective multimedia teaching aids, and innovative children's games and puzzles will be intermingled with basic nutritional information and guidelines. The presentation of a nutritional health lesson plan created by each participant will be required to complete the course. Alternative Fee: $10 for non-credit certificate. *Registration Deadline: July 15, 1980.*

SUMMER SYMPOSIUM ON INDEPENDENT LIVING SKILLS

August 4-8 (3 credits/graduate or undergraduate)

The Summer Symposium on Independent Living Skills will provide enrollees with facts about groups of individuals having special personal needs and will suggest ways to apply these to their home economics courses by including topics on the problems of developing independent living skills. Visiting faculty from the University of West Virginia's Homemaker Rehabilitation Program will act as consultants to interested high school and junior high school home economics teachers, special education teachers, and university faculty members planning to adapt workshop information to their particular occupational situation. Completion of a scholarly report and/or project related to special needs people and their care will be required. Alternative Fee: $75 for non-credit certificate.

COLLEGE NEWSPAPER WORKSHOP

August 4-8 (non-credit only)

For members of college newspaper staffs, this workshop covers every aspect of financing, preparing, and publishing a university news publication whether it be a daily or a weekly. Topics to be discussed include: reporting and editorials, graphics materials, design and layout, photography, printing and distribution, office management, and advertising sales. The workshop will be taught by faculty from the Ohio University School of Journalism. Comprehensive Fee: $140 including room and board. *Registration Deadline: July 24, 1980.*

COLLEGE YEARBOOK WORKSHOP

August 10-13 (non-credit only)

For members of college yearbook staffs, this workshop covers every aspect of preparing and publishing a university yearbook, no matter what format or budget is involved. Topics to be discussed are: design and layout, photography in words, reporting and literary pieces, graphics and graphic materials, choosing a style and theme, and yearbook extras and hangups. The workshop will be taught by faculty from the Ohio University School of Journalism. Comprehensive Fee: $140 including room and board. *Registration Deadline: July 24, 1980.*

REFERENCE SOURCES UPDATE

August 11-15 (2 credits/graduate or undergraduate)

Designed by the Educational Media department's division of Curriculum and Instruction, this workshop will serve as an update for teachers, media specialists, students, administrators, and other library users in regard to current innovative and exemplary reference sources and library research aids. The Ohio University Alden Library staff will assist in demonstrating several recently developed information search techniques, as well as the more traditional services now available in libraries throughout the country.

HIGH SCHOOL YEARBOOK ADVISORS WORKSHOP

(at site in northeastern Ohio to be selected)

August 15-16 (2 credits/graduate or undergraduate)

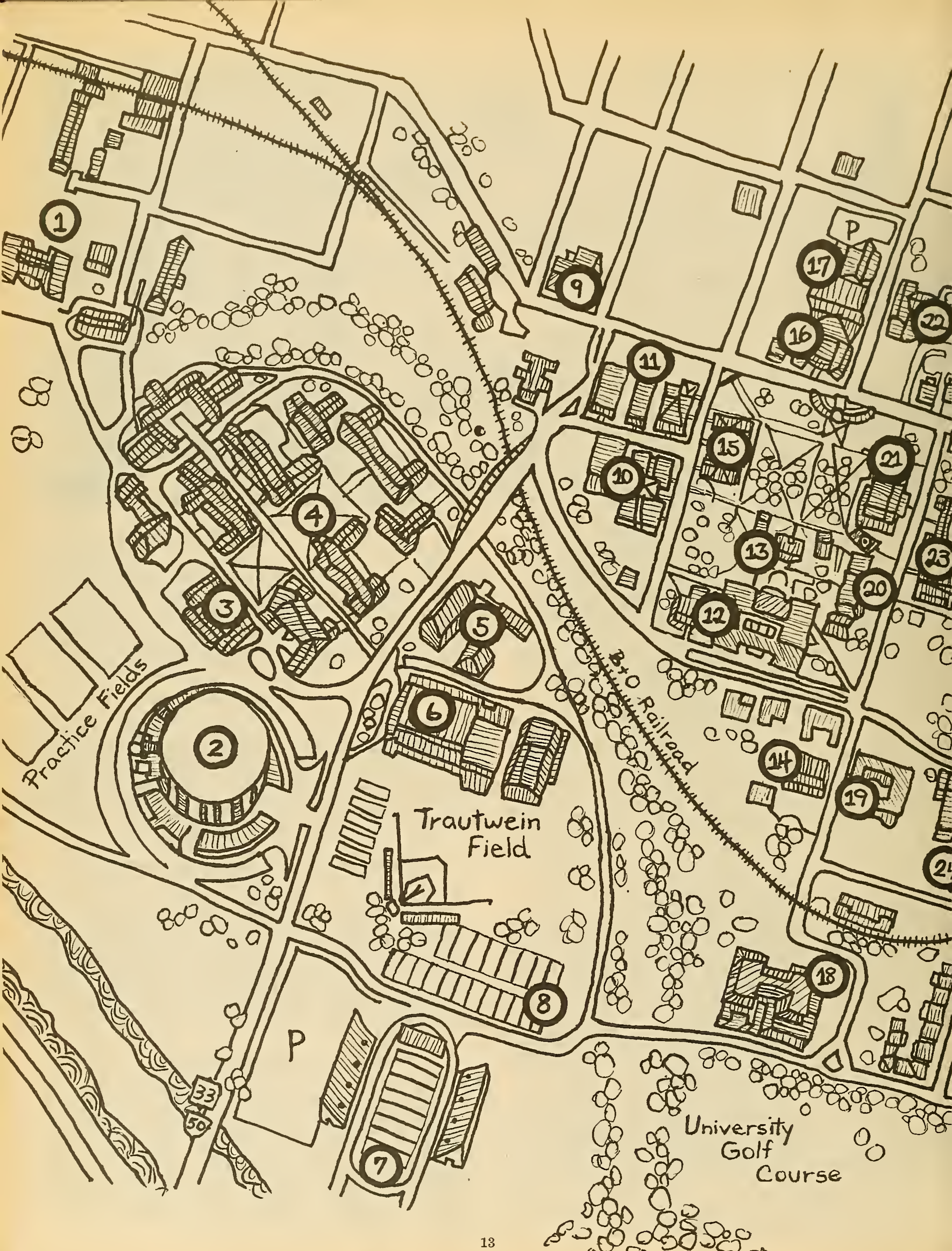
An intensive workshop on advising high school yearbook preparation with emphasis on the editorial considerations involved in: selecting and planning content, sectional-organization and arrangement, reporting and writing, layout design and graphic materials, photography and illustration, printing and distribution, business management, and working with the student staff. Planning, writing, and design assignments will be required. Additional research project option available for 1-3 credits. Alternative Fee: $55 for non-credit certificate. *Registration Deadline: August 15, 1980.*

NEW ENGLAND YEARBOOK/NEWSPAPER WORKSHOP

(at Amherst, Massachusetts)

August 18-21 (2 credits/graduate or undergraduate)

A workshop primarily for high school students (non-credit only) and a limited number of high school publications advisors from Massachusetts and eight surrounding states to be held at Amherst College. Participants will choose to concentrate on either yearbook or newspaper preparation, covering such production and management areas as: reporting and editorial writing, graphic design and layout, photography and illustration, printing and distribution, and finances and advertising techniques. Assignments will be completed by both credit and non-credit students. Alternative Fee: $100 for non-credit certificate. *Registration Deadline: August 10, 1980.*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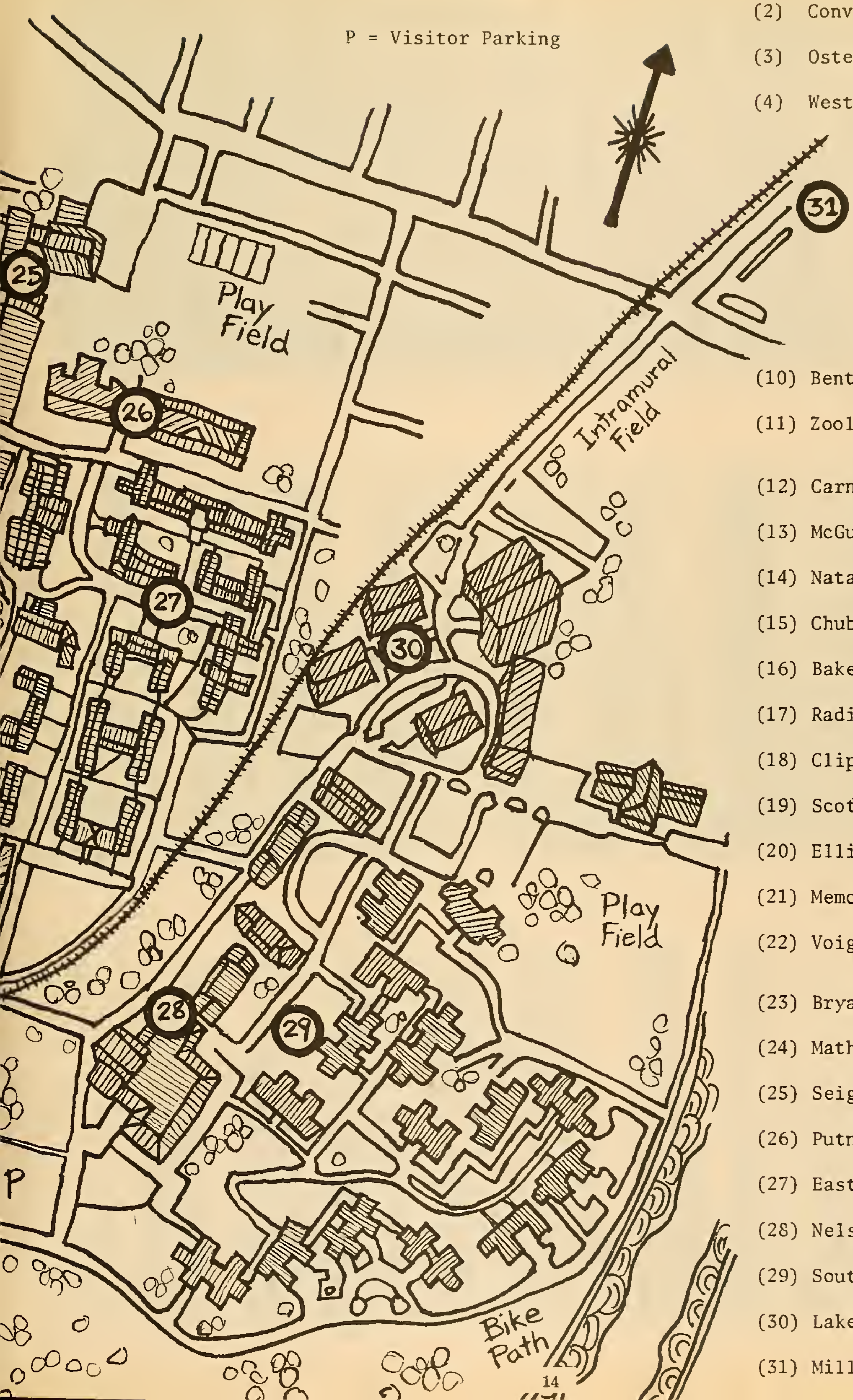
CAMPUS MAP KEY

P = Visitor Parking



(1) Physical Plant
(2) Convocation Center
(3) Osteopathic Medicine
(4) West Green Residences
(5) Porter Hall
(6) Grover Center
(7) Peden Stadium
(8) Tennis Courts
(9) College Inn
(10) Bentley; Lindley Halls
(11) Zoology; Chemistry; Copeland
(12) Carnegie; Alden Library
(13) McGuffey; Cutler Halls
(14) Natatorium
(15) Chubb Hall
(16) Baker Center
(17) Radio-TV; Kantner Hall
(18) Clippinger Hall
(19) Scott Quad
(20) Ellis Hall
(21) Memorial Auditorium
(22) Voigt; Hudson Health Center
(23) Bryan; Tupper Halls
(24) Math Building
(25) Seigfried; Music Building
(26) Putnam; McCracken Halls
(27) East Green Residences
(28) Nelson Commons
(29) South Green Residences
(30) Lakeview Apts.
(31) Mill Street Apts.

UNDERGRADUATE SUMMER SESSION COURSES

ACCOUNTING

101 Managerial Accounting (4)
Uses of accounting information for making managerial decisions.

102 Managerial Accounting (4)
Prereq: 101. Continuation of 101. See 101 for description.

217 Introduction to Taxation (4)
Introduction to process of taxation with emphasis on broad provisions of federal income tax as it applies to individuals.

310 Cost Accounting (4)
Prereq: 102. Manufacturing cost determination under job-order and process systems. Establishment of standard costs, budgets, and analysis of variances.

311 Industrial Accounting (4)
Prereq: 101, 102. (summer) Primarily for nonaccounting majors. Objective to explain how accounting data can be interpreted and applied by management in planning and controlling business activities. Major purpose to show how accounting data can help solve problems confronting management. Attention also given to use of accounting data by investors, potential investors, and lenders. Concentration on use of data rather than collection and presentation.

317 Federal Income Taxes (4)
Prereq: 101 and 217. Continuation of 217 with emphasis on details of federal income tax as it applies to individuals and special provisions which apply to corporations.

497 Independent Research (1-15)
Prereq: perm. Research in selected fields of accounting under direction of faculty member.

ANTHROPOLOGY

377 Peasant Communities (4)
Prereq: 270. Focuses on folk component of state societies.

399 Readings in Anthropology (1-3, max 6)
Prereq: 270 and perm. Supervised readings in various fields of anthropology: archaeology, ethnology, linguistics, physical anthropology.

455 Seminar in Methodology and Field Research (1-4, max 8)
Prereq: 13 hrs and perm. Practical training in application of theoretical models to data in one of following sub-fields: archaeology, ethnology, physical anthropology. Primarily designed for anthropology majors.

490 Independent Research in Anthropology (1-10, max 10)
Prereq: open to srs only; 20 hrs anthropology and written perm prior to qtr in which study is begun. Individual research in anthropology in specific problem areas in which student has demonstrated ability and interest.

494 Seminar in Anthropology (4-6, max 12)
Prereq: 13 hrs. Selected topics in anthropology.

ART

100 See-Know: Visual Art (3)
Contemporary and explorative approach, presenting basic current language about art, and concepts of structure of art and its contexts.

102 Three-Dimensional Design (4)
Studio projects exploring vocabulary of 3-dimensional design and dynamics of mass, plane, volume, and space. Introduction to processes and media.

105 Introduction to Painting (4)
Media and processes of painting and problems of representation and abstraction. Emphasis on development of painting techniques and pictorial composition.

115 Introduction to Ceramics (4)
Ceramic handbuilding techniques. Emphasis on development of knowledge of clay as a medium through projects, demonstrations, lectures, and discussions.

128 Basic Drawing (4)
Introduction to drawing, its purposes and media. Emphasis on development of drawing skills in relation to visual perception.

141 Introduction to Printmaking (4)
Printmaking concepts and processes including silkscreen, lithography, etching, and relief prints. Projects, demonstrations, and discussions.

191 Introduction to Photography (4)
Introduction to art and techniques of photography, for majors and nonmajors. Students required to have suitable cameras and their own processing and enlarging accessories. 1 lec, 4 lab hrs.

205 Painting (4)
Prereq: 12 hrs studio art or perm.

206 Painting (4)
Prereq: 205.

207 Painting (4)
Prereq: 206.

215 Ceramics (4)
Prereq: 12 hrs studio art or perm.

216 Ceramics (4)
Prereq: 215.

217 Ceramics (4)
Prereq: 216.

232 Sculpture — Figure Modeling (4)
Prereq: 12 hrs studio art or perm.

248 Scrigraphy (4)
Prereq: 12 hrs studio art or perm.

305 Painting (5)
Prereq: 207.

306 Painting (5)
Prereq: 305.

307 Painting (5)
Prereq: 306.

315 Ceramics (5)
Prereq: 217.

316 Ceramics (5)
Prereq: 315.

317 Ceramics (5)
Prereq: 316.

331 Sculpture (5)
Prereq: 8 hrs sculpture.

332 Sculpture (5)
Prereq: 331.

334 Sculpture — Fabrication (5)
Prereq: 8 hrs sculpture or perm.

341 Prints (5)
Prereq: 8 hrs prints.

342 Prints (5)
Prereq: 341.

343 Prints (5)
Prereq: 342.

360 Art for Elementary Teachers (6)
Prereq: jr rank.

405 Painting (5)
Prereq: 307.

406 Painting (5)
Prereq: 405.

407 Painting (5)
Prereq: 406.

415 Ceramics (5)
Prereq: 317.

416 Ceramics (5)
Prereq: 415.

417 Ceramics (5)
Prereq: 416.

432 Sculpture (5)
Prereq: 431.

433 Sculpture (5)
Prereq: 432.

434 Sculpture — Fabrication (5)
Prereq: 8 hrs. See 334. Further investigation of sculptural ideas.

441 Prints (5)
Prereq: 343.

442 Prints (5)
Prereq: 441.

443 Prints (5)
Prereq: 442.

480 Individual Problems (1-5)
Prereq: perm.

481 Individual Readings (1-5)
Prereq: perm.

498 Advanced Photoillustration (5)
Prereq: portfolio review and perm. Investigation of tools and uses of applied photography and special problems of illustration.

AVIATION

110 Primary Ground Instruction (4)
40 hrs ground instruction covering radio navigation, meteorology, FAA regulations, communications, aircraft construction, and performance data to meet requirements of private pilot's written exam. 4 lec.

240 Primary Flight Instruction (4)
Prereq: FAA written passed. 40 hrs flight training and related lectures including primary flight maneuvers and cross-country flying. Meets requirements for private pilot's certificate, 1 lec, 6 lab. Course fee $825.

340 Commercial Flight Course, Part I (4)
Prereq. private pilot certificate. 40 hrs flight training consisting mainly of cross-country. 6 lab. Course fee $725.

343 Commercial Flight Course, Part II (4)
Prereq: private pilot certificate and 340 or perm. 35 hrs flight training consisting mainly of solo cross-country to build flying time toward higher rating, 5 hrs complex airplane time included. Course fee $760.

475 Internship in Aviation Operations (1-15)
Prereq: perm. Internship program in selected fields of aviation under direction of faculty member.

Lake Hope State Park is on State Route 278 in Zaleski State Forest, 15 miles west of Athens at Zaleski. Facilities are available for tent and trailer camping, group camping, vacation cabins, dining (at the lodge), swimming, scuba diving, fishing, boating, picnicing, hiking trails, and nature programs; hunting and bridle trails located in adjacent State Forest.

Specific fields could be: (1) serving as intern in commercial flight operation as copilot or as flight instructor; (2) serving as intern in airport operation as assistant to airport manager, or (3) special service flying such as medical supplies, fire-fighting, cloud seeding, FAA observers, etc.

BLACK STUDIES

101 Introduction to Afro-American Arts (2-5)

Comparative study of ideas and esthetic trends in Afro-American art from colonial slavery through contemporary black arts movement.

251 Afro-American Socio-Economic Development I (5)

Political-economic study of historical development of black people in American society from colonial period to 1876.

490 Independent Study (1-5)

Prereq: prior perm. Primarily for students interested in concentrated study in specific area in cooperation with advisor.

BOTANY

101 Principles of Biology (5)

Introduction to principles and concepts of life; emphasis on interrelationships of structural, functional, reproductive, evolutionary, and ecological principles related to cells and organisms. (Same as Zool 101.) 3 lec, 2 lab.

102 Plant Biology (5)

Prereq: 101. Morphology and anatomy of seed plants as related to function. Survey of plant kingdom with emphasis on evolutionary relationships and life histories of selected plant groups. 3 lec, 2 lab.

103 Biology, Plants, and Man (4)

Prereq: 101 suggested. Interrelationships of plants and man from both historical and modern points of view, origins of agriculture and civilization, tropical and temperate food plants, medicinal plants, drug plants, destruction of environment, and its ultimate effect on food plants. 3 lec, 1 disc.

248 Trees and Shrubs (Dendrology) (5)

Prereq: 102. (fall) *A. Blickle*. Collection, identification, nomenclature, classification, ecological relationships, and importance to man of native and introduced woody plants. 3 lec, 4 lab, supplementary field trips.

The Trisolini Art Gallery on east Union Street houses a continually changing exhibit of traveling art shows and works from the university's permanent collection. Originally the private residence of President Baker, this stately building was dedicated to the memory of Anthony Trisolini, Dean of Fine Arts, on April 20, 1974. During the summer, the gallery is open Tuesday to Saturday, from 12-4 p.m., with new exhibits installed every 2-3 weeks.

404 Undergraduate Research (2-6)

Prereq: 24 hrs botany and perm. Independent research under supervision of faculty member.

BUSINESS ADMINISTRATION

310 Production Management (4)

Prereq: jr rank. Emphasis on organization of production function and its relationship to other management and functional activities.

470 Administrative Policy (4)

Prereq: C.B.A., sr rank. Integrated application of core studies to nature, functions, and activities of actual business, analyzing objectives, policies and performance — all in relation to outside environment.

497 Independent Research (1-15)

Prereq: perm. Research in selected fields of business administration under direction of faculty member.

498 Internship (1-15)

Prereq: perm.

BUSINESS LAW

255 Law and Society (4)

Prereq: soph rank. Conceptual approach to origin, nature, structure, functions, and procedures of law with study of contractual relationships.

356 Law of the Management Process (4)

Prereq: 255 and jr rank. Conceptual framework of legal nature of organizations, particularly corporations and partnerships; rights, powers, and limits of managers in relation to duties and responsibilities to their organizations, owners, creditors, employees, customers, state, and public.

493 Readings (1-15)

Prereq: perm. Readings in selected fields of business law. Topics selected by students in consultation

CHEMISTRY

497 Independent Research (1-15)

Prereq: perm. Research in selected fields of business law under direction of faculty member.

121 Introduction to Chemistry (4)

(fall, winter, summer) Introduction to chemistry through study of atomic and molecular structure, periodic table, and states of matter. Recommended for students in College of Engineering and Technology (except chemical engineers), College of Education (except science modular program), and other programs requiring only 1 yr of chemistry. Credit not allowed for both 121 and 141. 3 lec, 3 lab.

122 Chemistry of Solutions (4)

Prereq: 121 or perm. (winter, spring, summer) Introduction to descriptive inorganic chemistry through study of solutions and concept of equilibrium. Credit not allowed for both 122 and 142. 3 lec, 3 lab.

141 Introductory College Chemistry (5)

(fall, winter, summer) General course in fundamental chemical principles. Atomic structure, periodic classification, bonding, mole concept, and stoichiometry with problem solving. Recommended for majors in chemistry, chemical engineering, botany, zoology, medical technology, secondary education—science modular program and preprofessional (biological science) areas. Credit not allowed for both 121 and 141. 3 lec, 1 recit, 3 lab.

142 Chemical Energetics (5)

Prereq: 141 or perm. (winter, spring, summer) Introduction to thermodynamics and chemical equilibrium through study of solutions with problem solving. Credit not allowed for both 122 and 142. 3 lec, 1 recit, 3 lab.

301 Organic Chemistry (3)

Prereq: 123 or 143 or perm. (fall and summer) Designed for students who are not BS chemistry majors and who do not require a full-year course in organic chemistry.

302 Organic Chemistry (3)

Prereq: 301. (winter, summer) Continuation of 301. See 301 for description.

303 Organic Chemistry Laboratory (1)

Prereq: 301 or 305, or with 301. (fall, spring, summer) Designed for students who are not BS chemistry majors. 3 lab.

304 Organic Chemistry Laboratory (2)

Prereq: 303 and 302 or with 302. (winter, summer) Continuation of 303. See 303 for description. 6 lab.

330 Introduction to Toxicology (4)

Prereq: 302 or 307 or perm. (winter) Introduction to chemical, clinical, environmental, and forensic aspects of toxicology, types of poisons, how poisons act, treatment of acute poisoning, and control of poisonous materials.

499 Undergraduate Research (as recommended)

Prereq: jr or sr rank with B average in chemistry or perm. Independent work for qualified upperclass chemistry majors.

COMPARATIVE ARTS

317 Introduction to Fine Arts (3)

Prereq: not open to fr. (fall) Analysis of form, media, and content of major arts stressing interrelationships of architecture, dance, dramatic art, music, literature, and painting through recognition of common art factors.

318 Introduction to Fine Arts (3)

Prereq: 317, not open to fr. (winter) Analysis of form, media, and content of major arts stressing interrelationships of architecture, dance, dramatic art, music, literature, and painting through recognition of common art factors.

327 Cultural Traditions and the Arts (4)

(fall) Principal styles of western art as mirrored in selected masterpieces of architecture, sculpture, painting, music, and literature. Specific works of art examined in relationship to one another and against background of ideas that animated life of their times. (Greek, Roman, Medieval)

328 Cultural Traditions and the Arts (4)

(winter) Principal styles of western art as mirrored in selected masterpieces of architecture, sculpture, painting, music, and literature. Specific works of art examined in relationship to one another and against background of ideas that animated life of their times. (Renaissance, Baroque)

481 Individual Problems (1-6)

Prereq: open to srs only; perm.

COMPUTER SCIENCE

201 Introduction to Computing (5)

Prereq: 3 yrs h.s. math. Algorithms, programs, and computers. Basic programming and program structure. Programming and computing systems. Debugging and verification of programs. Data representation. Organization and characteristics of computers. Survey of computers, languages, systems, and applications. Computer solution of several numerical and nonnumerical problems using 1 or more programming languages.

At Baker Center, the Ohio University student services building, you can find everything from bowling, billiards, and beer to pianos, typewriters, and television. Any questions? Ask at the information desk, or call (614) 594-6704.

253 Introduction to Digital Computer Programming for Engineering and the Physical Sciences (5)

Prereq: Math 263A-B-C. Principles and practice of computer solution of problems involving extensive numerical calculations as found in physical sciences, engineering, and numerical mathematics.

254 Introduction to Digital Computer Programming for Behavioral, Educational, and Biological Sciences (5)

Prereq: soph rank. Problem organization for computer solution using scientifically oriented algorithmic languages such as FORTRAN and PL/1. Concepts of and practice in logical problem analysis, artificial language syntax and semantics, problem flow, testing and debugging, input/output, artificial intelligence, and use of auxiliary storage using appropriate problems in student's field of interest.

490 Special Problems in Computer Science (1-15)

Prereq: perm. Special project in 1 of various subfields of computer science or application area studied, investigated and/or solved by individual student or small group working in close relationship with instructor. Suitable problems might include construction of compiler for special purpose artificial language, perfection of computer code to solve some significant problem, or study of coherent subfield of computer science. May be repeated for credit.

DANCE

220 Dance Technique II (2)

Prereq: 120 or equiv. (A) Modern dance

320 Dance Technique III (2)

Prereq: 220 or equiv. (A) Modern dance

ECONOMICS

101 Principles (4)

Basic theory of national income analysis. Economic problems and economic institutions of society.

102 Principles (4)

Basic theory and economic analysis of prices, markets, production, wages, interest, rent, and profits.

213 Current Economic Problems (4)

Prereq: 101 or 301 and 102 or 302. Application of economic theory to current economic problems with emphasis upon public policy implications. Depressed areas, technological unemployment, economic growth, inflation, and agricultural instability considered.

301 Introduction to Economic Analysis (4)

Prereq: not open to fr or to those who have had 101 and 102. Description same as for 101 but content treated at more advanced level.

302 Introduction to Economic Analysis (4)

See 102 for description, but content treated at more advanced level.

303 Microeconomics (4)

Prereq: 101 or 301; jr; soph if major. Price system as an allocative mechanism. Price and production policies of individual firms and consumers under alternative market conditions and analysis of these policies on social efficiency of resource allocation. Students expected to have an understanding of elementary algebra and geometry.

304 Macroeconomics (4)

Prereq: 101 or 301, jr; soph if major. Factors determining level of nation's economic activity and responsible for growth and stability in nation's economy. Part of course devoted to measures of national income while remainder consists of analysis of interrelationships among production, price levels, relative prices, employment, and capital formation. Students expected to have an understanding of elementary algebra and geometry.

334 Public Utilities (3 or 4)

Prereq: 303. Economic basis of public utility concept and its relation to business organization. Nature, scope, development, legal organization, and regulation of public utilities.

340 International Economics (4)

Prereq: 101 or 301 and 102 or 302 or 303. Economic relations of nations of the world. Some of topics considered are: economic basis for international trade and investment; mechanics of international exchange; tariffs, quotas, exchange control, cartels, and state trading as devices of economic nationalism; and international economic cooperation with special reference to organizations affiliated with United Nations.

352 Economic History of the United States (4 or 5)

Prereq: 101 or 301 and 102 or 302 or 303. Economic factors in development of United States including historical growth of economic institutions such as banking, manufacturing, labor unions, and agriculture, from colonial times to present.

493 Readings (1-15)

Prereq: perm. Readings in selected fields of economics. Topics selected by student in consultation with faculty member.

497 Independent Research (1-15)

Prereq: perm. Research in selected fields of economics under direction of faculty member.

EDUCATION

CURRICULUM AND INSTRUCTION

Educational Media

480 Introduction to Educational Media (4)

Prereq: jr rank. *J. McCutcheon, S. Roberts, S. Strother.* Application of principles of instructional materials and media to teacher-student communication. Basic experiences provided in production of instructional materials and equipment operation.

Elementary Education

310 The Teaching of Reading and Language Arts in the Elementary School (6)

Prereq: jr standing in teacher education. *W. Cooper, B. van der Veur, staff.* Preservice preparation for developmental teaching of reading; text and supplementary readings, lectures and discussions, films and other resources, observations and projects for practical competence.

330 Teaching of Mathematics in the Elementary School (4)

Prereq: 9 hrs of math, including Math 120 and jr standing in teacher education. *C. Smith, C. D'Augustine.* Methods of teaching numbers, numeration, operations, relations, problem solving, measurement, and geometry.

350 Teaching of Social Studies in the Elementary School (4)

Prereq: 12 hrs of social science including Geog 121, jr standing in teacher education. *M. Felsinger, A. Leep.* Materials and methods in teaching content subjects in elementary schools with special emphasis upon practical experience in social studies unit teaching and skills.

411 Diagnosis and Treatment of Reading Disabilities (4)

Prereq: 310, perm. *W. Cooper, B. van der Veur, R. Pinney.* Correlates of variability in reading proficiency. Incidence of retardation and disability. Proposed causes of failure and concept of multiple causation. Specialized materials and instructional efforts. Systematic observation of cases of reading disability and preparation of case report.

412 Reading Laboratory Practicum (4, max 12)

Prereq: sr rank. *W. Cooper.* Application of developmental approach to problem cases in reading instruction, participation in diagnostic examination, parent and teacher conferences, individual procedures in tutoring, staffing of cases, and preparation of reports. (Weekly group discussion period, lab sessions arranged.)

460 The Child and the Curriculum (4)

Prereq: student teaching. (Academic yr plus 1st term of summer session). *K. Weimer, M. Ploghoft.* Develops purpose for elementary education through study and research of curriculum and learning problems. Emphasis on service role of elementary school curriculum to child and society and role of teacher in laying educational foundations in development of self-worth for each child.

490 Study in Elementary Education (1-5, max 15)

Prereq: perm of dept chairman. Independent and/or group study of some special interest and concern (problems, area, questions) under guidance of staff; assigned and suggested readings and other resources and experiences; frequent conferences; preparation of final report.

Secondary Education

250 Analysis of Teaching (4)

Prereq: admission to teacher education or perm of education personnel dean. Immediate focus upon teaching act with training in systematic observation and analysis. Peer teaching, laboratory use of instructional media, and tools for self-analysis. 3 lec, 2 lab.

351 Instructional Process and Curriculum (5)

Prereq: 250 and admission to jr standing in teacher education, or perm of education personnel dean. Focus on current teaching techniques and materials. Continued emphasis on lab experiences and use of media. 4 lec, 2 lab.

420 Teaching Reading in the Junior and Senior High School (5)

Prereq: 9 hrs and educational psychology. Materials, methods, and developmental patterns of adolescents in reading. Remedial programs and adaptation of materials to adolescent.

480 School and Society (3)

Prereq: student teaching or perm. Current trends and issues in American secondary education, utilizing materials drawn from social and cultural foundations of education.

490 Studies in Secondary Education (1-5, max 15)

Prereq: perm. Serves a special projects function as defined by chairman of department. Honors students or students seeking honors in secondary education may register for this course.

Special Education

272 Introduction to Education of Mentally Retarded Children and Youth (3)

Prereq: 271 and admission to teacher education. *Y. Leyser.* Etiology, diagnosis, classification, learning potential, and general characteristics of retarded child with emphasis on psychosociological impact of retardation upon individual, family, and community.

474 Diagnosis and Remediation of Specific Learning Disabilities (4)

Prereq: admission to jr standing in teacher education. *B. Hoffmann.* Techniques of assessing cerebral and perceptual dysfunctions and resultant cognitive and behavioral disorders with emphasis on neurological bases of sensory motor reaching approach to remediation.

476 Teaching the Learning Disabled (4)

Prereq: admission to jr standing in teacher education and EdSp 474. Assignment of an individual child for purpose of doing a comprehensive evaluation of and writing a prescriptive program for the child.

490 Study of Special Education (1-5, max 15)

Prereq: admission to jr standing in teacher education and perm from director of special education. Independent analysis of problems, special interests, concerns, with assigned and suggested readings, programmed experiences, and preparation of final report, with guidance of staff member.

The Natatorium is open for coed recreational swimming two hours daily at no charge. Locker rooms and showers are provided.

PROFESSIONAL LABORATORY EXPERIENCES

466 Student Teaching for Advanced Students (6-9, max 9)

Prereq: perm. *J. Evans, staff.* Supervised observation, participation, and limited teaching; open only to elementary education degree candidates and selected secondary education and special education majors with a minimum of 3 yrs of prior teaching experience.

ENGINEERING AND TECHNOLOGY

180A Problem Solving (3)

Prereq: perm. (summer) Emphasizes problem solving and applications. Topics covered: variables, functions, limits, derivative, differentiation, tangents and normals, problems in maxima and minima, motion, curves and curvature, vectors, polar coordinates, differentials, series.

180B Problem Solving (3)

Prereq: perm. (summer) Emphasizes problem solving and application. Topics covered: plane areas, volumes, centroids, moments of inertia, fluid pressure, work, arc length, area of solids, variable properties.

240 Introduction to Computer Solutions of Engineering Problems (3)

Prereq: Math 263C or with Math 263C or perm. (fall, winter) Introduction to application of digital computation techniques to engineering problems. Techniques of programming, including FORTRAN, GPSS, etc., useful for solution of engineering problems and use of peripheral equipment.

ENGINEERING, CHEMICAL

331 Principles of Engineering Materials (4)

Prereq: Chem 122 or 142. (fall, spring, summer) Fundamental principles underlying behavior of engineering materials. Relationship between structure and properties of ceramic, metallic, and polymeric materials. 4 lec.

418 Chemical Engineering Lab VI — Materials (2)

Prereq: 331. (fall, winter, spring) Demonstrations and experiments supporting relationships which exist between structure and properties of ceramic, metallic and polymeric materials. 4 lab.

ENGINEERING, CIVIL

220 Statics (4)

Prereq: Math 263C or with 263C. Laws of equilibrium of forces, friction, centroids, and moment of inertia. Not open to srs. 4 lec.

ENGINEERING, ELECTRICAL

250A Electrical Engineering I (4)

Prereq: perm. (summer) Special course in direct current and alternating current analysis using calculus, primarily for transfer students from 2-yr technical institutions.

250B Electrical Engineering II (4)

Prereq: perm. (summer) Continuation of 250A, including 3-phase circuits (balanced and unbalanced), transients, frequency response, etc.

313 Basic Electrical Engineering I (3)

Prereq: Math 263B. DC, steady-state single phase AC, balanced polyphase, and magnetic circuits. Not open for credit to electrical engineering majors.

314 Basic Electrical Engineering II (3)

Prereq: 313. Electronic devices, models, transformers, and steady state performance of rotating machines. Not open for credit to electrical engineering majors. 3 lec.

381 Internship in
Electrical Engineering (1-3)

Prereq: jr rank and perm. (fall, winter, spring, summer) Supervised work-study program, in electrical engineering profession, in established industrial environment. Credit dependent on advanced registration and mutual agreement between faculty supervisor and participating company. May be repeated; however, hrs applied for graduation limited by dept.

401 Advanced Laboratory I (1-3)

Prereq: 303 or perm. (fall, winter, spring, summer) Advanced lab format follows that of intermediate lab. Student-proposed projects are design- or research-oriented and directed by a faculty member specializing in area of investigation. Portion of this lab required in conjunction with certain electrical engineering 400-level lecture courses. Student taking 400-level electrical engineering courses must register for minimum of 1 credit hr of advanced lab per qtr — 5 credit hrs of advanced lab required for graduation.

402 Advanced Laboratory II (1-3)

Prereq: 303. (fall, winter, spring, summer) See 401 for description.

403 Advanced Laboratory III (1-3)

Prereq: 303. (fall, winter, spring, summer) See 401 for description.

481 Internship in
Electrical Engineering (1-3)

Prereq: sr rank and perm. (fall, winter, spring, summer) Supervised work-study program, in electrical engineering profession, in established industrial environment. Credit dependent on advanced registration and mutual agreement between faculty supervisor and participating company. May be repeated; however, hrs applied for graduation limited by dept.

490 Selected Topics (1-3)

Prereq: perm. Selected topics of current interest in electrical engineering

490Y Digital Processing of Signals (3)

Prereq: 312. (on demand) Digital techniques for various signal-processing applications. Emphasis on design and realization of digital algorithms for performing specific filtering function. Topics include sampled-data signals, discrete-time system analysis, frequency response and realization of discrete-time systems, infinite impulse response digital filter design, finite impulse digital filter design, discrete and fast Fourier transforms.

The Athens City Recreation Program offers summer fun activities from A-Z: Arts and Crafts, Basketball Camp and League, Baton Twirling, Bowling, Cheerleading, Competitive Swimming, Diving, Golf, Guitar, Gymnastics, Little League Baseball and Softball, Men's Softball League, Pee-Wee League, Playground Recreation Activities, Pony League Baseball and Softball, Soccer League, Swim Instruction, Swimming in Outdoor Pool, Tennis, Tee Ball, and Women's Softball.

ENGINEERING GRAPHICS

101 Engineering Drawing (3)

Beginning course for students of engineering and technology and related fields; basic techniques, processes and standards, multiview drawing, freehand drafting, fundamentals of dimensioning, section views, and sectional assemblies. 5 lec.

ENGINEERING, INDUSTRIAL AND SYSTEMS

304 Applied Engineering Statistics (3)

Prereq: calculus or perm. Introduction to efficient methods for data collection and analysis. Application of basic statistical tests, techniques, and experimental design concepts to engineering and science data problem areas. 3 lec.

330 Engineering Economy (3)

Comparing alternatives for acquisition of capital assets, expenditure of operating monies, and income generation. Topics include equivalence, annual cost method, present worth method, rate of return method, depreciation, benefit/cost, breakeven analysis, income taxes, equipment replacement, and risk. 3 lec.

336 Project Management (3)

Development and utilization of network techniques, such as PERT and CPM, to schedule activities, develop financial budgets, allocate resources, and control progress and costs of practical projects. Students will be introduced to use of available computer programs that generate project schedules. 3 lec.

489 Special Investigations (1-6)

Prereq: perm.

490 Advanced Problems in Computer Applications (1-6)

Prereq: perm. Special investigations of advanced industrial and systems engineering problems involving use of digital or analog computers.

ENGLISH

ENGLISH LANGUAGE AND LITERATURE

171 Topics in Literature (5)

Prereq: fr and soph only. Group of courses similar in structure and purpose but different in topic. Reading literature and writing essays. Students receive practice and instruction in writing coherent, intelligent, persuasive prose and are evaluated primarily by that means. As preparation for the several (at least 5) short papers required, students will read fiction, poetry, and sometimes drama (mostly 20th century) chosen for relevance to topic of course and then discuss their understanding of issues and worlds presented. Those with major writing deficiencies should take 150 (see description).

171A: Literature of Initiation
171F: Literature of Vision and Fantasy
171H: The Comic Mode in Literature

172 Contemporary Writing Skills (5)

Prereq: fr and soph only. Rhetorical strategies and stylistic patterns of expository prose. Through example and frequent practice, reviews control of grammar and usage and sharpens attention to audience, selection and organization of material, generalization and evidence, coherence, emphasis, word choice, etc. Students requiring intensive instruction and practice in the most common conventions of grammar and usage should take 150.

201 Interpretation of Fiction (5)

Prereq: 5 hrs above 100. Forms and techniques of the art of fiction.

202 Interpretation of Poetry (5)

Prereq: 5 hrs above 100. Intensive reading of selected poems from all periods of English and American literature and study of forms and techniques.

203 Interpretation of Drama (5)

Prereq: 5 hrs above 100. Analysis of dramatic forms.

302 Shakespeare, The Comedies (5)

Prereq: 5 hrs above 199. (winter) Comedies.

303 Shakespeare, The Tragedies (5)

Prereq: 5 hrs above 199. (spring) Principal tragedies.

308 Advanced Composition (5)

Prereq: jr rank. Aim: to increase skills and expertise in writing of discursive prose. Method: regular practice and evaluation, supplemented by attention to professional prose and concepts in rhetoric and style.

312 Medieval and Renaissance English Literature (5)

Prereq: 10 hrs above 199. Major works, writers, and genres of Medieval and Renaissance periods, excluding Shakespeare.

314 Romantic and Victorian Literature (5)

Prereq: 10 hrs above 199. Major works, writers, and genres of 19th century.

331 20th Century British and American Literature (5)

Prereq: 10 hrs above 199. Some major works, writers, and genres of British and American literature in this century.

322 American Literature Since the Civil War (5)

Prereq: 10 hrs above 199. Major works, writers, and genres of American literature since the Civil War.

361 Major American Authors (4)

Prereq: jr or sr rank or perm. Studies 1 or 2 American authors with view to providing extensive knowledge of writer's or writers' esthetic tactics, themes, or career developments. Writers to be studied named in subtitle.

490 Independent Reading (1-15)

Prereq: perm. Directed individual reading and research.

HUMANITIES

109 Humanities — Great Books (3)

Prereq: fr and soph only. (spring) Continuation of 107, 108. See 107 for description.

307 Humanities — Great Books (3)

Prereq: jr and sr only. (fall) Classics of western civilization, leading toward an understanding of cultural heritage. Guidance in critical thinking, reading, and writing about those works.

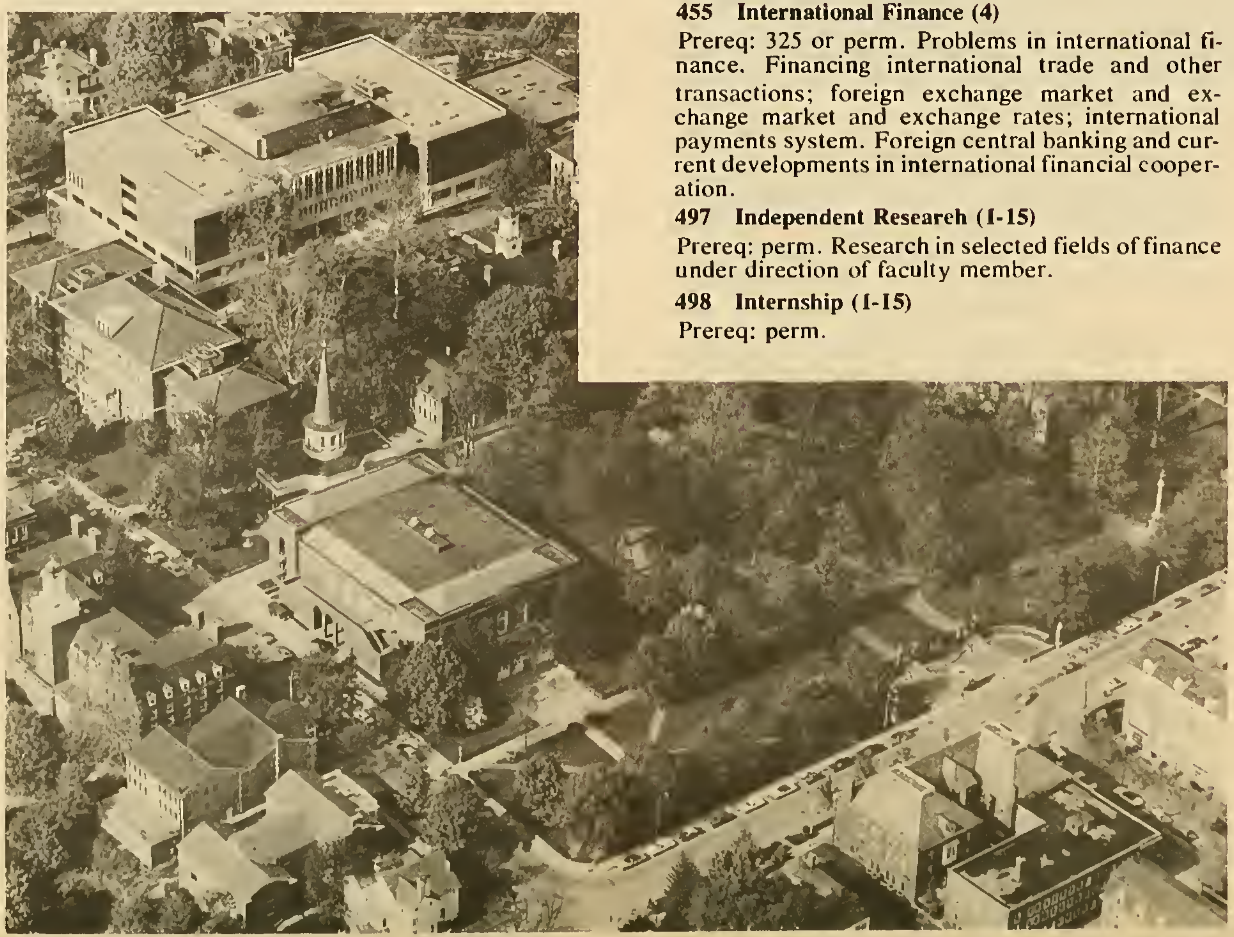
FILM

480 Individual Problems (1-5)

Prereq: perm. Production of a motion picture. May be repeated.

481 Individual Readings (1-5)

Prereq: perm. Readings and reports on works related to motion pictures. Reading list selected by student in consultation with faculty member.



FINANCE

325 Managerial Finance (4)

Prereq: Acct 102 and jr rank (3rd qtr soph if finance major) or minor in business administration. Role of financial management in business enterprise; financial analysis; planning needs for short-term and long-term funds; planning for profits; capital budgeting; internal management of working capital and income; raising funds to finance growth of business enterprises.

331 Risk and Insurance (4)

Prereq: jr rank. Social importance of risk and its place in personal, business, and national life, including principles and methods of handling risk. Special interest in technique of insurance.

455 International Finance (4)

Prereq: 325 or perm. Problems in international finance. Financing international trade and other transactions; foreign exchange market and exchange market and exchange rates; international payments system. Foreign central banking and current developments in international financial cooperation.

497 Independent Research (1-15)

Prereq: perm. Research in selected fields of finance under direction of faculty member.

498 Internship (1-15)

Prereq: perm.

FOREIGN LANGUAGES AND LITERATURES

GERMANIC, ROMANCE, AND SLAVIC LANGUAGES

(Department of Modern Languages)

445 Teaching of Modern Foreign Languages (3)

Prereq: perm. Not to be counted as hours above 200 for the AB degree. Study, demonstration, and use of methods and materials for effective modern foreign language instruction. Required of majors who plan to teach.

French (Romance)

111 Elementary French (4)

Beginning course of a 3-qtr, 1st-yr sequence. Basic grammatical concepts and patterns. Emphasis on development of reading, listening, comprehension, speaking, and writing skills. Basic text and workbook used. Lab required.

112 Elementary French (4)

Prereq: 111. Continuation of 111. Basic text, workbook, and readings used. Lab required.

211 Intermediate French (4)

Prereq: 113 or 2 or 3 yrs high school French. First course of a 3-qtr intermediate level sequence. Intensive review of grammar. Additional readings with discussion in French. Supplemental cultural material. Lab required.

212 Intermediate French (4)

Prereq: 211 or perm. Continuation of 211.

435 Proseminar (1-4, max 12)

Prereq: perm. Subject will vary. May be repeated when subject changes.

German (Germanic)

111 Elementary German (4)

Introduction to pronunciation and basic grammar. Development of comprehension and speaking skills. Lab required. Beginning course of a 3-qtr 1st-yr sequence.

112 Elementary German (4)

Prereq: 111. Continuation of 111. Lab required.

435 Proseminar (1-4, max 12)
Prereq: perm. Intensive analysis of major author, literary genre, or theme. When subject is changed, student may reenroll.

Spanish (Romance)

111 Elementary Spanish (4)
Development of comprehension, speaking, and reading skills. Basic grammar. Lab required. Beginning course of 3-qtr 1st-yr sequence.

112 Elementary Spanish (4)
Prereq: 111. Continuation of 111.

211 Intermediate Spanish (4)
Prereq: 113 or 2 or 3 yrs h.s. Spanish. Intensive review of grammar. Additional readings and discussion in Spanish. Supplemental cultural material. Lab required. First course of 3-qtr intermediate-level sequence.

212 Intermediate Spanish (4)
Prereq: 211 or perm. Continued review. Additional literary readings with discussion in Spanish.

435 Proseminar (1-4, max 12)
Prereq: perm. Subject will vary. May be repeated when subject changes.

GREEK AND LATIN LANGUAGES
(Department of Classical Languages)

Archaeology

490 Independent Study (1-5, max 12)
Prereq: perm. *H. Hultgren.* Specialized study in archaeology for those students who have legitimate needs and interests not served by 201, 203, or 352.

GEOGRAPHY

121 Elements of Cultural Geography (4)
Examination of spatial dimensions of culture, emphasizing patterns of variation of selected cultural elements — language, religion, population, settlement, etc. — from spatial perspective and within particular spatial frameworks.

343 Geography of Appalachia (5)
(winter) *H. Wilhelm.* Topical and regional survey of Appalachia with emphasis on settlement and rural and urban land use. National role of Appalachia assessed especially in regard to coal, conservation, reclamation, and recreation.

490 Geographic Studies (1-5, max 10)
Prereq: perm. D. Physical, E. Political, F. Regional

GEOLOGY

491 Geologic Studies (1-6, max 12)
Prereq: perm. Supervised studies in A. History of Geology, B. Economic Minerals and Fuels, C. Engineering and Environmental Geology, D. Geochemistry, E. Geophysics, F. Geomorphology and Physiography, G. Glacial Geology, H. Historical Geology, I. Hydrogeology, J. Mineralogy and Petrology, K. Paleontology and Paleoecology, L. Sedimentology and Stratigraphy, M. Structural Geology and Tectonics.

HEALTH, PHYSICAL EDUCATION AND RECREATION (C — Coed)

100F Bowling (1) (C)

100L Golf (1) (C)

100M Intermediate Golf (1) (C)

101N Beginning Water Skiing (1) (C)

101O Advanced Water Skiing (1) (C)

100Z Tennis (1) (C)

Professional Preparation Courses

202C Personal and Community Health (4)
Practices and appreciation of means whereby health of individual and group may be maintained.

204C Drugs, Alcohol and Tobacco (3)
Prereq: 202. Indepth study of contemporary issues — drugs, alcohol, and tobacco for prospective teacher.

236C Field Experience in Recreation (1-3)
Prereq: soph rank and 250. Designed to provide sophomore recreation student with an opportunity to acquire supervised experiences in skills and techniques involved in differing areas of recreation.

270C Teaching of Physical Education (3)
Lab and lecture experiences for teaching physical education in elementary school. Designed for elementary education students.

336C Field Experiences in Recreation (3)
Prereq: jr rank and/or perm. Designed to provide jr recreation student with an opportunity to acquire experience in skills and techniques involved in differing areas of recreation.

350C Independent Study (1-5)
Prereq: perm. Study and/or research in selected fields related to health, physical education, athletics, intramurals, or recreation under direction of HPER undergraduate committee and faculty member.

409C Tests and Measurements (4)
Prereq: sr rank. Administration and evaluation of tests in health, physical education, and athletics; practice in handling test data by elementary statistical methods.

440C Internship in Recreation (12)
Prereq: recreation major and perm. Supervised professional field work experiences in an approved program of recreation.

449C Community Recreation (4)
Prereq: sr rank. Programs and program building; administration of playgrounds, community centers, and recreational activities.

464C Community Health Services Practicum (15)
Prereq: sr rank. Participation in activities of an official or voluntary public health agency. Supervision of experience to be done by agency personnel and University faculty.

495C School Health Problems (5)
Prereq: 369 and sr rank. Principles, problems, organization, and administration of school health programs, including school and community relationships.

HEARING AND SPEECH SCIENCES

108 Introduction to Speech Disorders (3)

Symptoms, causes, effects, and evaluation of disorders of speech, voice, and language.

442 Practicum (2)

Prereq: 341. Diagnosis, planning of therapy, therapy experience in clinic facility. 1 class meeting per wk plus clinic assignment.

442C Clinical Internship (1-15)

Prereq: Approval of clinic director. Placement in a clinic setting for 1 qtr. Application of diagnosis, therapy planning, and therapy techniques. Must have been applied for fall qtr of junior year and approved for internship. Apply in writing to HSS undergraduate coordinator.

498 Special Problems (3-5, max 12)

Prereq: written proposal and perm in qtr prior to registration. Not open to graduate students.

499 Independent Reading in Speech Pathology, Audiology, and Speech Science (3-5, max 12)

Prereq: written proposal and perm in qtr prior to registration. Not open to graduate students.

HISTORY

101 Western Civilization in Modern Times (4)

Renaissance to 1648: Renaissance, Reformation, origins of national state system, diplomacy, and imperialism as applied to Portugal, Spain, and Hapsburg Empire, and commercial and scientific revolutions. When possible, majors should take 101-102-103 in sequence. Nonmajors may elect 102 without taking 101; they may elect 103 without taking 101 or 102.

102 Western Civilization in Modern Times (4)

Continuation of 101. Covers 1648 to 1848: absolutism, constitutionalism, operation of coalition diplomacy, and imperialism as applied to France and Britain; westernization of eastern Europe, enlightenment, French Revolution, agricultural, commercial, and industrial revolutions and growth of ideologies — liberalism, socialism, and nationalism.

103 Western Civilization in Modern Times (4)

Continuation of 101-102. Covers 1848 to present: continued industrial revolution and spread of liberalism, socialism, and nationalism; rise and fall of German bid for power in 2 world wars; new ideologies of materialism, positivism, Social Darwinism, irrationalism, totalitarianism; Russian and Chinese revolutions and international communism; rise and fall of western empires in Africa and Asia.

111 The Origins of Western Civilization (4)

Birth of civilization in Near East, culture of Greece and Rome, coming of Christianity, and medieval European states surveyed. Emphasis upon cultural contributions of these earlier societies to modern western civilization.

211 American History to 1828 (4)

Political, diplomatic, social, and economic development of American history. Covers 1607 to 1828: colonial America, founding of the new nation, and early national period. When possible, majors should take 211-212-213 in sequence. Nonmajors may elect 212 without taking 211; they may elect 213 without taking 211 or 212.

212 History of the United States, 1828-1900 (4)

Continuation of 211. Political, diplomatic, social, and economic development of American history. Covers 1828 to 1900: Jacksonian democracy, territorial expansion, sectionalism and controversy, Civil War, reconstruction, and impact of expanded Industrial Revolution.

213 History of the United States Since 1900 (4)

Continuation of 211-212. Political, diplomatic, social, and economic development of American history. Covers 1900 to present: progressive movement, WW I, prosperity and depression, WW II, and problems of cold war era.

308B The Civil War and Reconstruction (4)

P. Field. Forces making for increased sectionalism in 1850s; rise of new parties; military engagements; society and institutions in North and Confederacy during wartime; attempts to restructure Southern society after the war and why they failed.

310B The United States in Recent Times, 1920-1939 (4)

A. Hamby, G. Lobdell. Temper and culture of 20s, Republican ascendancy and Democratic revival, Great Depression, F. D. Roosevelt and New Deal.

329B Ancient History — Hellenic Civilization (4)

D. Richter. Aegean prehistory, Minoan civilization, Mycenaean Greeks, Dorian invasions, Greek Renaissance, growth of the polis, Athenian society and culture, Persian and Peloponnesian Wars, political history of Greece to Alexander. Stresses archaeological sources, mythology, and drama. Hellenic contributions to western civilization

Lake Snowden Recreation Area is a one mile drive east of the village of Albany, off US 50 and 6 miles south of Athens. Campsites, picnic and play areas and 130 acre lake provide swimming, boating and fishing.

358B Early Modern Europe, 1648-1715 (4)

D. Baxter. Europe from 1648 to 1715. Main political, economic, and cultural developments in Europe during Age of Louis XIV: French hegemony, rise of balance of power, absolutism.

372C Balkans in 20th Century, 1878 to Present (4)

W. Kaldis. Historical, cultural, and ethnic background of Balkan peoples. Social, economic, political, and intellectual developments in Balkans and East Europe; communization of southeast European states.

389 Later Medieval England, 1307-1485 (4)

C. Reeves. Investigation of political, social, intellectual, ecclesiastical, and economic aspects of period of ferment and rapid change.

Rally the hounds and wake up the horses! Fox Lake Wildlife Area is west of Athens off State Route 56 on Baker Road....a 373 acre tract with a 48 acre lake for public hunting and fishing.

Visit the breathtaking Old Man's Cave at Hocking Hills State Park on State Routes 56 and 374, southeast of Logan. Rocky gorges, caves, waterfalls, nature trails, picnic areas in deep woods, hiking trails, swimming pool and cabins and dining lodge are featured. Other special sights include Ash Cave, Rock House, Cantwell Cliffs, Conkel's Hollow and Cedar Falls.

HOME ECONOMICS

CONSUMER SERVICE AND EDUCATION

499A Field Work in Home Economics — Extension and/or Business (5-12)

Prereq: 18 hrs, sr rank, perm. On-the-job training through cooperation with business organizations, department stores, radio and television stations, and Home Economics Extension Department of Ohio State University.

499B Field Work in Home Economics — Job Training (5-12)

On-the-job training in area of specialization. Taken concurrently with HEFN 400.

HUMAN DEVELOPMENT AND FAMILY ECOLOGY

462A Pluralistic Life Styles (2)

Prereq: jr or sr rank or perm. *A. Lockard, E. Stricklin.* Analysis of emerging pluralistic marriage and family life patterns in American society.

462B Parenthood (2)

Prereq: jr or sr rank, perm. *A. Lockard, E. Stricklin.* Analysis of dynamics of parenthood.

499 Field Experience in Human Development and Family Ecology (5-12)

Prereq: 18 hrs, sr rank, perm. On-the-job training through cooperation with social, welfare or community agencies, hospitals, early childhood programs, and Merrill-Palmer Institute.

HUMAN ENVIRONMENT AND DESIGN

499 Field Work — Interior Design (5-12)

Prereq: 18 hrs, sr rank, perm. On-the-job training through cooperation with residential and contract firms for interior design majors. Concurrently with HEID 400.

499 Field Experience — Textiles and Clothing (4-12)

Prereq: 18 hrs, sr rank, perm. On-the-job experience through cooperation with industry and/or retail establishments. For merchandising majors.

HUMAN NUTRITION AND FOOD SCIENCE

499 Field Experience — Foods and Nutrition (5-12)

Prereq: sr rank, perm. On-the-job training through cooperation with hospitals, community agencies, business organizations, and radio/television stations.

INDUSTRIAL TECHNOLOGY

80 Driver Education (2)

For novice drivers. Credit and points not counted toward degree. 2 lec, 2 lab. Fee $25.

117 Engineering Metals (3)

Prereq: engineering major. Practice directed toward learning capability of various metal cutting, forming, and joining machines. 1 lec, 4 lab.

216 Metal Machining (4)

Operation of cutting, grinding, and electrical discharge machines, with emphasis on factors affecting quality control during production. 1 lec, 6 lab.

220 Small Engines (3)

Assembly, adjustment, and gauging procedures, as applied to small 2-cycle and 4-cycle gasoline engines. 1 lec, 4 lab.

244 Graphic Processes (3)

Production methods applied to letterpress, offset, and screen process printing. 1 lec, 4 lab.

250 Wood Industry (3)

Prereq: EG 101. Woodworking procedures and technology, including machine operation. 1 lec, 4 lab.

310 Metal Casting (3)

Prereq: 250. Foundry practice extending from pattern design through production of finished casting. 1 lec, 4 lab.

312 Metals Production (3)

Prereq: 216. Advanced practice of machining techniques organized to illustrate applications of quantity and quality control. 1 lec, 4 lab.

323 Automotive Theory (5)

Prereq: 220. Adjustments affecting performance and overhaul procedures. Dynamometer testing of performance characteristics. 2 lec, 6 lab.

341 Process Photography (3)

Prereq: 244. Applications of photography, with emphasis upon standardization of quality control, from exposure through printing by photo-offset and screen process methods. 1 lec, 4 lab.

360 Manufacturing (3)

Prereq: jr rank. Manufacturing process and its inte-

Ohio University's Golf Course and Driving Range are open every day with special green fees and quarterly rates available to students. Family, season, and senior passes may also be purchased. Clubs, hand cars, and gasoline driven carts can be rented at the golf course office.

gration into public school industrial arts curriculum.

380 Driver Safety (5)

Prereq: EDCI 275 or Psy 275. Current traffic conditions and regulations affecting driving as preparation to becoming instructors in driver education. Lab involves working with novice drivers. 4 lec, 2 lab.

395 Co-op Work Study (5, max 15)

Prereq: perm. Work-study participation in established industrial training programs. Credit dependent upon advance registration and acceptance by approved companies participating in program.

483 Safety Programs (4)

Prereq: 380 or 12 hrs. Organization patterns of safety programs, and how they are applied. 4 lec.

490 Special Problems (1-5)

Prereq: sr rank, perm. In-depth study in related technical areas.

INTERPERSONAL COMMUNICATION

101 Fundamentals of Speech (3)

Analysis of role of oral communication in human relationships with consideration of variety of interpersonal contexts; performance directed toward student development of proficiency in oral communication.

103 Public Speaking (4)

Principles of public speaking, practice in presenting informative and persuasive speeches with emphasis on communicative process. Fr and soph only.

104 Listening (2)

Improvement of listening skills through intensive practice.

205 Group Discussion (4)

Study of structure and internal dynamics of small groups, nature and functions of leadership and group participation, problem solving, and decision making; frequent participation in group discussion activities.

210 Parliamentary Procedure (2)

Non-lecture, small-group work in theory and procedures by which organizations are run according to rules of order.

215 Argumentation and Debate (4)

Basic principles of argumentative discourse including concepts of presumption, burden of proof, rhetorical forms of reasoning, and evidence. Practice in applying these principles.

217A Forensic Workshop — Debate (1-6)

Prereq: perm. Intensive work in Intercollegiate Forensics Program. Students prepare for debate on contemporary issues. For credit, students must participate in 1 intercollegiate contest.

217B Forensic Workshop — Individual Events (1-6)

Prereq: perm. Intensive work in Intercollegiate Forensics Program. Students prepare for audience and tournament appearances in persuasion, oral interpretation, extemporaneous, sales, informative, and impromptu speaking. For credit, students must participate in 1 collegiate tournament.

404 Principles and Techniques of Interviewing (4)

Prereq: perm and sr rank. Methods used in 2-party, face-to-face oral communicative situations commonly encountered in organizational and professional environments. Intensive practice through role-playing and real-life interviews in and out of class, emphasizing skills involved in giving and getting information, persuasion, and job-employment situations.

425 Direction of Forensic Programs (3)

Prereq: 103 and 217 or perm. (winter, summer) Study in curriculum, coaching, budgeting, judging, public relations, professionalism, and tournament management. Practical application in university and high school forensics programs.

435 Theories of Argument (3)

(spring, summer) Relations between formal logic and rhetorical systems of argument; intensive study of fallacies and of experimental findings related to study of argument.

442 Communication and Persuasion (4)

(fall, spring) Process of communication and attitude change, survey of general theories and typical research, analysis of contemporary persuasion problems.

448 Cross-Cultural Communication (4)

Analysis of processes and problems of communication as affected by national cultures; effects of differences in language, values, meaning, perception, and thought.

460 Contemporary Public Address (4)

Analysis of selected speakers and settings since 1933 with emphasis on last decade; close examination of agitation, confrontation, and control as rhetorical strategies; rhetoric of pulpit; black rhetoric, and rhetoric of women's liberation.

497 Internship (1-15)
Prereq: perm. Systematic, supervised practical training and experience for undergraduate students in selected professional environments.

498 Special Problems (2-4, max 12)
Prereq: written proposal, perm. May be repeated for credit.

499 Independent Readings (2-4, max 12)
Prereq: written proposal, perm. May be repeated for credit.

JOURNALISM

221 Graphics of Communication (5)
Prereq: majors only. Creative and practical aspects of typography, layout, and design of printed communication.

332 Reporting Practice (2)
Prereq: 231, perm. Assignments at the *Athens Messenger* in city, sports, and women's desk reporting, along with features.

334 Editing Practice (2)
Prereq: 333, perm. Copyreading on the *Athens Messenger*. Handling of local correspondence, wire copy, and working out make-up problems.

411 Newspaper and Communications Law (4)
Prereq: 333. Principles and case studies in communications law, constitutional guarantees, libel, privacy, contempt, privilege, copyright, and government regulatory agencies.

441 Magazine Feature Writing (4)
Prereq: 231 and 333, 15 hrs English, or perm. Writing and marketing factual magazine feature articles of various types. Finding subjects, securing photographs, writing articles, and surveying markets.

490 Independent Study (1-4)
Prereq: written proposal and perm. See title. May be repeated to 15 hours' credit.

491 Research in Journalism and Communications (1-15)
Prereq: perm.

LINGUISTICS

270 The Nature of Language (5)
Nontechnical investigation into basic nature of human language.

MANAGEMENT

200 Introduction to Management (4)
Prereq: Not open to CBA students. Nature of managerial concept, managerial functions, and organizational structure, with emphasis on current issues.

300 Management (4)
Prereq: jr rank or soph if management major. Understanding of and practice in solving problems facing managers and administrators using concepts and principles from behavioral sciences and other applicable disciplines.

325 Communication Behavior in the Modern Organization (4)
Prereq: jr rank or soph if management major. Introduction to basic concepts of organizational communication and practice with written communication forms (letters and reports). Brief consideration given to oral communication.

420 Administration of Personnel (4)
Prereq: 300 or perm. Compendium of practices in personnel management. Consideration of such areas as employee selection, training, performance evaluation, and wage and salary administration.

425 Labor Relations (4)
Prereq: 300 or perm. Climate of relations between labor and management, union organizing, collective bargaining, grievance procedures, arbitration. Uses readings, cases, and class exercises to develop understanding of labor-management problems and ability to solve them.

430 Information Management (4)
Prereq: sr rank or perm. Information networks and flows in organizations within total-systems framework.

440 Organizational Behavior — Leadership and Motivation (4)
Prereq: 300 or perm. Conceptual framework of behavioral sciences to management and organizations. Motivation and leader behavior within organizational settings.

493 Readings (1-15)
Prereq: perm. Readings in selected fields of management and organizational behavior. Topics selected by student in consultation with faculty member.

497 Independent Research (1-15)
Prereq: perm. Research in selected fields of management and organizational behavior under direction of faculty member.

MARKETING

301 Marketing Principles (4)
Prereq: Econ 101 or 301 and jr rank (3rd qtr soph if marketing major). Principles of marketing management with emphasis on practices and problems of marketing manager; analysis of marketing environment; lectures supplemented with cases.

441 International Marketing (4)
Prereq: 301. Marketing problems, opportunities, and organization of multinational firms to serve overseas markets. Government aids and impediments and comparison of markets and marketing techniques in U.S. and foreign countries.

444 Consumer Behavior (4)
Prereq: 301 and 8 hrs psychology and/or sociology. Individual, social, and cultural influences that affect consumer behavior. Consideration of explanatory and predictive models.

497 Independent Research (1-15)
Prereq: perm. Research in selected fields of marketing under direction of faculty member.

498 Internship (1-15)
Prereq: perm.

MATHEMATICS

113 Algebra (5)
Prereq: at least 1 yr h.s. algebra. Review topics in high school algebra including linear and quadratic equations and inequalities, factoring, fractions, radicals and exponents, and simple graphing techniques. Credit for this course cannot be awarded to students who have credit for Math 102.

120 Elementary Topics in Mathematics (5)

Prereq: 2 yrs h.s. math. Emphasis on number system and related properties. Primarily for majors in elementary education and related fields. Does not apply to Arts and Sciences natural science requirement.

121 Elementary Topics in Mathematics (5)

Prereq: 2 yrs h.s. math. Topics include algebra, geometry, statistics, and probability. Primarily for majors in elementary education and related fields. 120 is not a prerequisite. Does not apply to Arts and Sciences natural science requirement.

163A Introduction to Calculus (4)

Prereq: 2 yrs h.s. math or 113 or equiv. Presents survey of basic concepts of calculus. For students who want introduction to calculus but do not need depth of Math 263 ABC. Note: Not open for credit to students who have credit for Math 263A. Students strongly urged to come to department office for advice in attempting transfer from 163 sequence to 263 sequence.

163B Introduction to Calculus (4)

Prereq: 163A. Continuation of 163A. Note: Not open for credit to students who have credit for Math 263B. Students strongly urged to come to department office for advice in attempting transfer from 163 to 263 sequence.

263A Analytic Geometry and Calculus (5)

Prereq: 113, and 116, 130 or 4 yrs h.s. math or perm of math dept. 263A-B-C is a basic introduction to calculus with emphasis on techniques and their applications. Topics covered: functions and limits, differentiation and integration, analytic geometry, vectors, transcendental functions, polar coordinates, solid analytic geometry, partial differentiation, multiple integrals, infinite series. NOTE: Not open for credit to students who have credit for both Math 163A and B. Students strongly urged to come to department office for advice in attempting a transfer from 163 sequence to 263 sequence.

263B Analytic Geometry and Calculus (5)

Prereq. 263A or 163B or equiv. Continuation of 263A. See 263A for description.

263C Analytic Geometry and Calculus (5)

Prereq: 263B. Continuation of 263A-B. See 263A.

340 Differential Equations (5)

Prereq: 263C. Ordinary differential equations and related topics.

410 Matrix Theory (5)

Prereq: 263C. Matrix algebra, matrix solutions of linear equations, linear dependence and independence, rank and equivalence, determinants, eigenvalues, and eigenvectors. Intended primarily for engineering and science students and not recommended for persons who have taken 211.

By about 300 B.C., the prehistoric Indians we now call Hopewell had developed a distinctive culture in the Middle West, their cultural zenith being here in the Scioto Valley of Southeastern Ohio. The site of the Mound City Group near Chillicothe is one burial ground and ceremonial center of these people where extensive excavations have revealed a wealth of artistic objects and historical information. The 23 mounds have been restored as a National Monument and museum, and are located on State Route 104, a mile north of the US 35 intersection, on the Scioto River's west band.

MUSIC

APPLIED MUSIC

141B Class Piano (2)

Prereq: perm; for nonmusic majors. *G. Berenson.*

147 Class Voice (2)

Prereq: perm. For students enrolling in beginning voice. *M. Stephenson.*

250 University Singers (2)

Prereq: perm (audition). *I. Zook.*

MUSIC EDUCATION

160 Music Fundamentals (3)

For elementary education majors only.

161 Music for the Classroom Teacher (3)

Prereq: 160 with minimum grade of C. Methods of teaching elementary music. For elementary education majors only.

MUSIC HISTORY AND LITERATURE

120 Introduction to Music Literature (2)

Prereq: for nonmusic major. Development of listening skills for understanding elements of musical style in historical perspective and significance of music as fine art.

428 Jazz History (3)

Study of various musics collectively known as jazz.

NURSING

300 Concepts of Health Care I (5)

Focuses on levels of wellness and maintenance of health in individuals and groups.

302 Concepts of Health Care VII (5)

Covers transition from technical to professional level of practice.

320 Concepts of Health Care II (5)

Focuses on restoration of health or reintegration of health.

330 Concepts of Health Care III (5)

Deals with man's adaptive process to stress and strain.

340 Concepts of Health Care IV (5)

Family-centered community nursing.

380 Concepts in Health Care VI (5)

Advanced concepts in clinical nursing.

390 Concepts in Health Care XIV (5)

Teaching strategies in meeting individual and group learning needs.

395 Concepts in Health Care XVII (5)

Covers transactions in gerontological nursing.

452 Concepts in Health Care IX (5)

Focuses on dynamics of nursing leadership.

458 Concepts in Health Care XII (5).
Focuses on impact of illness on individual.

470 Concepts in Health Care XVIII (5)
Aspects of rural community nursing.

490 Concepts in Health Care XIX (1-5)
Independent study course.

PHILOSOPHY

101 Fundamentals of Philosophy (5)
Survey of selected basic problems, concepts, and methods in philosophy.

120 Principles of Reasoning (4)
Prereq: not open to those who have had former 102. Use of evidence in establishing reliable conclusions.

312 History of Western Philosophy: Descartes to Hume (5)

351 Philosophy of Language (4)
Prereq: 6 hrs, including 120 or 320. Theories of meaning and reference and their philosophical significance, relations of meaning to verification and truth, and relationship between language and concepts.

497 Independent Reading (1-9, max 12)
Prereq: perm of chairman.

PHYSICS

PHYSICAL SCIENCE

100B The Universe (3)
Prereq: designed for nonscience major with minimal mathematical background. Descriptive study of astrophysical universe. Fundamental concepts and physical principles; life cycle of stars; explanation of recent findings including pulsars, quasars and black holes, theories of cosmology describing beginning and end of our universe. Other possible topics include UFOs, space exploration and possibility of extraterrestrial life.

101 Physical World (3)
Designed for nonscience majors. Fundamental ideas of measurement, motion, energy, sound, light, electricity and magnetism, and astronomy. Topics in astronomy include solar system, time, moon phases, tides, eclipses, sun, and galaxies. 3 lec.

101L Physical World (4)
Designed for nonscience majors. Fundamental ideas of measurement, motion, energy, sound, light, electricity and magnetism, and astronomy. Topics in astronomy include solar system, time, moon phases, tides, eclipses, sun, and galaxies. 3 lec, 2 lab.

PHYSICS

201 Introduction to Physics (4)
(fall, winter) 1st course in physics; open to students from all areas. Students should have high school level algebra and trigonometry, but no calculus required. Recommended for students in liberal arts, architecture, industrial technology, botany, geology, and premedicine. Lec with demonstrations and lab. Mechanics of solids and liquids, waves and sound. 3 lec, 2 lab.

202 Introduction to Physics (4)
Prereq: 201. (winter, spring) Continuation of 201. Open to students from all areas. Students should have high school level algebra and trigonometry, but no calculus required. Recommended for students in liberal arts, architecture, industrial technology, botany, geology, and premedicine. Lec with demonstrations and lab. Includes electricity, magnetism, heat, thermodynamics, and light. 3 lec, 2 lab.

303 Digital Computing Methods in Physics (3)
Prereq: physics major or perm. (spring) Practical computer programming (FORTRAN, etc.) with special emphasis on problems in physics. 3 lec.

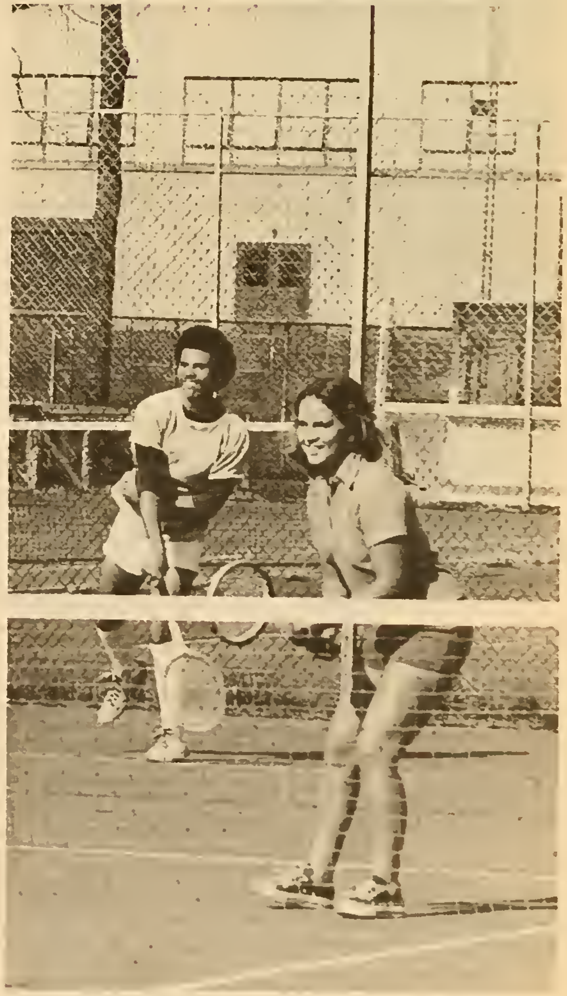
470 Special Problems (1-4)
Prereq: 22 hrs. Supervised research problems of limited scope in experimental and theoretical physics.

POLITICAL SCIENCE

101 American National Government (4)
Constitutional basis and development, political processes, and organization of American national government.

102 Issues in American Politics (4)
Prereq: 101. Continuation of 101. Concerned with administration and policy making processes of national government in selected areas *i.e.*, welfare, civil rights, defense, etc.

103 The United States in World Affairs (4)
Designed to introduce students to some major problems confronting United States in world arena and to ways in which these problems have been and are being dealt with. Will include examination of context in which American foreign policy is formulated and carried out as well as of some political, economic, military, and technological issues involved in working within an increasingly interdependent world.



Outdoor tennis courts at two locotions an campus are available for games and practice (except during scheduled tennis class hours). Twenty-four lighted courts are maintained by Ohio University, including four at Putnam field with manual switches. Use of the courts is free.

306 Politics of Appalachia (4)

Prereq: 101 or perm. Introduction to broad range of Appalachian political problems, such as politics of poverty. Includes examination of responses to these problems by various levels of government.

411 Public Administration (4)

Prereq: 11 hrs. *E. Collins*. Development of administrative organizations, current ideas in organizational theory, nature of federal bureaucracy, fiscal management, and control of administrative action.

412 Public Personnel Administration (4)

Prereq: 11 hrs. *E. Collins*. Philosophy, problems, and procedures of public personnel management: recruitment, training, promotion policies, position classification, and employer-employee relations.

491 Research in Political Science (1-5, max 10)

Prereq: 18 hrs and advance perm of instructor. Research in selected fields of political science.

498 Problems in Political Science (1-5, max 10)

Prereq: 18 hrs and advance perm of instructor. Research or directed reading based on student's special interest.

PSYCHOLOGY

101 General Psychology (5)

Introduction to psychology dealing primarily with learning, sensory processes, social and clinical psychology. Four instructional options are available; additional information can be secured at University College or Psychology Department.

121 Elementary Statistics for the Behavioral Sciences (5)

Prereq: Math 113 or 2 yrs h.s. mathematics. Measures of central tendency, variability, correlation, and simplest tests of hypotheses.

131 Psychology of Adjustment (4)

Prereq: 101. Dynamics, development, and problems of human adjustment.

173 Child and Adolescent Psychology (5)

Prereq: 101. Behavior from infancy through adolescence.

226 Experimental Psychology (5)

Prereq: 121. Training in scientific methods and techniques of modern experimental psychology with individual reports of experiments. 2 lec., 4 lab.

261 Industrial Psychology (5)

Prereq: 101 and 121. Applications of psychology in business and industry.

275 Educational Psychology (5)

Prereq: 101. Psychological foundations of education, with major emphasis upon learning, transfer, motivation, and evaluation.

304 Human Learning (5)

Prereq: 101, 121, or perm. Theoretical and experimental investigations of learning in human beings; concept learning, problem solving, memory, motor skills, and language.

314 Comparative Psychology (5)

Prereq: 101. Behavior of animals across phylogenetic scale. Interaction of genetics, hormones, learning, etc., in development of behavior. Lecture, lab, field trips, and naturalistic movies.

332 Abnormal Psychology (5)

Prereq: 101. Behavior disorders, their cause, and effects on person, family, and society.

333 Psychology of Personality (5)

Prereq: 101. Development and organization of personality, with evaluation of major theoretical viewpoints; research on personality structure, dynamics, and change.

336 Social Psychology (5)

Prereq: 101. Behavior of man as influenced by group membership, with emphasis on individual's interaction as basis of change of motives, attitudes, and personality.

390 Research in Psychology (1-5, max 15)

Prereq: 226, written perm. Supervised independent research on predefined problem.

489 Fieldwork in Psychology (1-5, max 5)

Prereq: written perm. Independent fieldwork and on-the-job training.

490 Seminars in Psychology (3-5)

Prereq: dependent on seminar; perm required.

491 Special Problems in Psychology (1-15)

Prereq: written perm. Independent work on special problem with any psychology professor.

H497 Readings in Honors Work (1-4, max 10)

Prereq: perm.

H498 Honors Work in Psychology (1-4, max 10)

Prereq: perm. Preparation for H499.

H499 Honors Work in Psychology (Thesis) (3-7, max 15)

Prereq: perm.

QUANTITATIVE METHODS

200 Introduction to Business Data Analysis (4)

Prereq: Math 163 sequence. Role of computer in business environment. Introductory study of equipment, applications, flow charting, and FORTRAN program language. Concepts of random variables and probability distributions.

201 Introduction to Probabilities and Statistics (4)

Prereq: 200. Theoretical distributions, sampling, estimation (point and interval), hypothesis testing, simple regression, and correlation.

497 Independent Research (1-15)

Prereq: perm. Research in selected fields.

RADIO-TELEVISION

106 Introduction to Radio-Television (4)

Organization, structure, and function of broadcasting as medium of mass communication. 4 lec.

121 Radio Performance (2)

Responsibilities and skills required of radio performer; practice in performance techniques for radio. 4 lab.

200A Broadcast Writing and Production Planning (4)

Prereq: soph rank. Introduction to nondramatic script writing in radio and television. Examination of elements of preproduction preparation for broadcast programs. 4 lec.

270 Broadcasting and the Public (4)

Prereq: soph rank and 200. Interrelationships between broadcaster, government, and public; bases for evaluation of broadcasting's influence on society and impact of public pressure on broadcasting. 4 lec.

355 Broadcast Programming (4)

Prereq: jr rank. Programming concepts, resources, costs, selection, and scheduling. Analysis of programs in terms of unit structure, appeals, and strengths. 4 lec.

452 TV Newsfilm Production and Editing (3)

Prereq: jr rank and perm. Principles and practices of TV newsfilm production and editing. Identical t Jour 452.

453 Broadcasting Law and Regulations (4)

Prereq: jr rank. Socio-political control of broadcasting, effect of laws, regulations and public pressures upon broadcast station policies. 4 lec.

490 Internship in Broadcasting (12)

Prereq: perm, srs only. Broadcast or related industry experience under auspices of cooperating organization, with paper submitted detailing intern's experiences.

498 Special Problems (1-4, max 12)

Prereq: written proposal and perm. Not open to graduate students.

499 Independent Readings in Radio-Television (1-4, max 12)

Prereq: written proposal and perm. Not open to graduate students.

SOCIAL WORK

498 Independent Studies and Special Projects In Social Work (1-10)

Prereq: 12 hrs in social work and perm. Student responsible for design and implementation of course of study or special project in area related to social work. Student interested in course must submit proposal for approval by department chairman at least 30 days prior to enrollment in course. Course may be repeated until 10 hrs of credit earned.

SOCIOLOGY

101 Introduction to Sociology (5)

Prereq: fr or soph rank. Nature of human society and factors affecting its development. Fundamental concepts of sociology: culture, personality, groups, institutions.

201 Contemporary Social Problems (4)

Prereq: 101 or jr or sr rank. Selected sociological perspectives on social problems considered. Specific social problems analyzed may include problems related to crime, sexual inequality, marriage and family, minority groups, student protest, drug and alcohol abuse, mental illness, environment, and others. Replaces 100.

211 Crowd and Mass Behavior (4)

Prereq: 101 or 302. Collective behavior resulting from social unrest; social contagion; formation and behavior of crowds; cults and sects; panic and disaster behavior; various types of mass behavior; impact upon social institutions. Replaces 111.

305 Readings in Sociology (1-6, max 6)

Prereq: 16 hrs and perm. Independent, directed readings designed to expand student's understanding in selected area of interest.

406 Proseminar in Sociology (4)

Prereq: 20 hrs. Critical examination of selected theoretical and research problems. Primarily for advanced students in sociology.

414 Contemporary Social Movements (4)

Prereq: 8 hrs. Organized movements resulting in major social changes: revolutionary, nationalistic, reform, religious; agitation, leadership, ideology; case studies of typical movements.

426 Industrial Sociology (4)

Prereq: 8 hrs. Interrelationship between industrial and social order. Special attention to social organization and processes within formal and informal structure of industrial unit.

453 Research Problems in Sociology (2-6)

Prereq: 20 hrs including 351 and written perm prior to registration. Individual research in specific problem areas in which student has demonstrated ability and interest.

THEATER

105 Practicum in Management (2-4)

Prereq: interview, fr rank. (fall, winter, spring, summer) Supervised lab practice in problems of theater publicity, finance, and house management. May be repeated.

205 Practicum in Management (2-4)

Prereq: interview, soph rank. (fall, winter, spring, summer) Supervised lab practice in problems of theater publicity, finance, and house management. May be repeated.

217A Voice Training (2)

(fall) Individual and group instruction in basic elements of vocal training for stage.

231 Stagecraft: Lighting (3)

Prereq: 131. Procedures and practice in theatrical production; practical experience. 2 lec, 4 lab.

232 Stagecraft: Costume (3)

Prereq: 132. Procedures and practices in theatrical production; practical experience. 2 lec, 4 lab.

305 Practicum in Management (2-4)

Prereq: interview, jr rank. (fall, winter, spring, summer) Supervised lab practice in problems of theater publicity, finance, and house management. May be repeated.

315 Intermediate Acting I (3)

Prereq: 215 and perm. (winter) *D. Dalen*. Continuation of 215.

317A Voice for the Stage (2)

Prereq: 217C; theater major. (fall) Principles and practice in vocal action for stage.

320 Directing I (4)

Prereq: 211. (fall, spring) Principles and practices of directing for stage.

380 Musical Theater Projects (1-4)

Prereq: perm. (summer, fall, winter, spring) Participation in selected musical theater projects announced in advance of registration. Orientation may be either research or production.

Lake Logan State Park is 2 miles southwest of Logan on State Route 664....a ten acre park with boating, fishing, hiking trails, hunting, swimming and picnicing.

405 Practicum in Management (1-4)

Prereq: perm. May be repeated for total of 17 credits. Supervised laboratory practice in problems of theater publicity, finance, and house management.

409 Independent Studies in Administration (1-6)

Prereq: perm. Allows advanced theater major to develop study project in aspects and problems of *theater administration* beyond normal course offerings.

410 Advanced Acting (3)

Prereq: 312 or perm. (winter) Exploration of specific problems in acting through use of exercises, monologues, and scenes.

413 Acting Internship (1-12)

Prereq: perm.

415 Practicum in Acting (1-4)

Prereq: perm. May be repeated for total of 17 credits. Supervised laboratory practice in rehearsal and public performance of roles.

417 Advanced Voice Training: Dialects and Scansion (2)

Prereq: 317A, B, C or perm. Introduction to and experience in scanning essentials of versification as it particularly applies to reading of dramatic lines. Introduction to study of dialects through use of study tapes and other source materials.

419 Independent Studies in Acting (1-6)

Prereq: perm. Advanced theater major can develop study project in aspects and problems of acting beyond normal course offerings.

420 Directing II (4)

Prereq: 320. (winter, spring) Practical experience in directing for stage.

427 Practicum in Stage Management (2-4)

Prereq: 426 and perm. (fall, winter, spring, summer) Supervised practical experience in stage managing of university theater or related production.

429 Independent Studies in Directing (1-6)

Prereq: perm. Advanced theater major can develop study project in aspects and problems of *directing* beyond normal course offerings.

439 Independent Studies in Production Design (1-6)

Prereq: perm. Advanced theater major develops study project in aspects and problems of *production design* beyond normal course offerings.

459 Independent Studies in Playwriting (1-6)

Prereq: perm. Advanced theater major develops study project in aspects and problems of *playwriting* beyond normal course offerings.

465 Practicum in Directing (1-4)

Prereq: perm. May be repeated for total of 17 credits. Supervised laboratory practice in planning and executing dramatic production.

479 Independent Studies in Theater History and Criticism (1-6)

Prereq: perm. Advanced theater major develops study project in aspects and problems of *theater history and criticism* beyond normal course offerings.

480 Advanced Musical Theater Projects (2-4)

Prereq: 380 or equiv. (fall, winter, spring, summer) Supervised scene study drawing from wide range of musical theater literature — opera to musical comedy and cabaret work. Each project designed and selected to meet individual student's needs and interests.

489 Independent Studies in Musical Theater (1-6)

Prereq: perm. (fall, winter, spring, summer) Advanced theater major can develop study project in aspects and problems of *musical theater* beyond normal course offerings.

ZOOLOGY AND MICROBIOLOGY

MICROBIOLOGY

211 Environmental Microbiology (3)

Prereq: one qtr biological science or chemistry or perm. (fall, spring) *J. Lawrence*. Natural microbial activities, their function in waste and pollution reclamation and disposal, water purification, food production and spoilage, and in public health. 3 lec.

212 Environmental Microbiology Laboratory (2)

Prereq: 211 or with 211. (fall, spring) *J. Lawrence*. Characteristics and activities of microbes of special relevance to man's welfare and those affecting maintenance of environmental quality. 2 lab.

411 General Microbiology (6)

Prereq: 10 hrs biological science; organic chemistry. (fall, winter) *S. Maier, R. Downey*. Properties of bacteria and other protists and their importance in our environment. Laboratory training in common bacteriological methods. 3 lec, 6 lab.

418 Epidemiology (4)

Prereq: 411, 437 or 441, and perm. (winter or upon demand) *R. Walker*. Mode of spread, cure, and prevention of communicable diseases in humans. 3 lec, 2 lab.

482 Topics in Microbiology (1-6, max 8)

Prereq: 20 hrs of microbiology including 411; 2.5 gpa in major courses; perm. Individual or small-group study of specialized topics in microbiology under supervision of instructor.

485 Undergraduate Research (1-3, max 12)

Prereq: 20 hrs and 2.5 gpa in major courses; perm from specific professor. Independent research under supervision of staff member.

H485 Undergraduate Research (1-4, max 12)

Prereq: 3.0 gpa in sciences, perm. Individualized and directed research. Students select topics or are directed into possible research areas.

H495 Undergraduate Research (3-9, max 15)

Prereq: H485, 3.0 gpa in sciences, sr rank. Independent departmental honors research under supervision of staff member. Student should enroll qtr he or she expects to complete thesis. **(Thesis)**

ZOOLOGY

101 Principles of Biology (5)

W. Witters and staff. Principles and concepts of biology. Emphasis on principles of cellular biology, classical and modern genetics, ecology, and evolution. Integration of all topics to show interrelationships of genetics, reproduction, development, and evolution. (Same as Bot 101) 3 lec, 2 lab.

203 Principles of Zoology (6)

Prereq: 101 or Bot 101. (winter, spring) *J. Rovner*. Principles of development, anatomy, physiology, behavior, and laboratory survey of major phyla. Designed for science majors and preprofessional students. 4 lec, 4 lab.

475 Animal Ecology (3)

Prereq: 203, not open to fr or soph. (winter) *H. Seibert*. Relation of animals to their habitat, to each other, and to man. General principles of terrestrial and aquatic communities, ecosystems, and man's involvement. 3 lec.

476 Ecology Laboratory (2)

Prereq: 475. (spring) *H. Seibert*. Field course for animal ecology, consisting of visits to and studies of various local terrestrial and aquatic communities. 4 lab.

485 Undergraduate Research (1-3, max 12)

Prereq: 20 hrs and 2.5 gpa in zoology, perm from specific professor. Independent research under supervision of staff member.

H485 Undergraduate Research (1-4, max 12)

Prereq: 3.0 gpa in sciences, perm from specific professor. Individualized and directed research. Students select topics or are directed into possible research areas.

H495 Undergraduate Research (Thesis) (3-9, max 15)

Prereq: H485, 3.0 gpa in sciences, sr rank. Independent departmental honors research under supervision of staff member. Student should enroll qtr he or she expects to complete thesis.

Did you know that a 1916 Baldwin steam locomotive and three old-time steel passenger cars take a 15 mile roundtrip between a depot south of Nelsonville and the town of Carbon Hill, passing through the historic and beautiful Monday Creek Valley, once dotted with picturesque coal mining towns? This ride into the long ago begins at the Hocking Valley Scenic Railway depot one mile south of Nelsonville on Route 33, Saturdays, Sundays, and holidays at noon and 2:00 p.m.

GRADUATE SUMMER SESSION COURSES

ACCOUNTING

501 Accounting Principles (4)
Intensive overview of accounting theory, practice, and statement preparation.

502 Accounting Principles (4)
Prereq: 501. Continuation of 501. See 501 for description.

510 Cost Accounting (4)
Specialized problems of cost accumulation and analysis of manufacturing corporations. Emphasizes costs for making management decisions.

697 Independent Research (1-15)

ART

505 Painting (3-6)

506 Painting (3-6)
Prereq: 505.

515 Ceramics (3-6)

516 Ceramics (3-6)
Prereq: 515.

531 Sculpture (3-6)

532 Sculpture (3-6)
Prereq: 531.

541 Printmaking (3-6)

542 Printmaking (3-6)
Prereq: 541.

605 Painting (3-6)
Prereq: 506.

606 Painting (3-6)
Prereq: 605.

615 Ceramics (3-6)
Prereq: 516.

616 Ceramics (3-6)
Prereq: 615.

631 Sculpture (3-6)
Prereq: 532.

632 Sculpture (3-6)
Prereq: 631.

641 Printmaking (3-6)
Prereq: 542.

642 Printmaking (3-6)
Prereq: 641.

705 Painting (3-6)
Prereq: 606.

706 Painting (3-6)
Prereq: 705.

715 Ceramics (3-6)
Prereq: 616.

716 Ceramics (3-6)
Prereq: 715.

731 Sculpture (3-6)
Prereq: 632.

732 Sculpture (3-6)
Prereq: 731.

741 Printmaking (3-6)
Prereq: 642.

742 Printmaking (3-6)
Prereq: 741.

806 Painting Studio Thesis (5-10)

816 Ceramics Studio Thesis (5-10)

832 Sculpture Studio Thesis (5-10)

841 Prints Studio Thesis (5-10)

ART HISTORY

780 Individual Problems (1-6)

781 Individual Reading (1-3)

ART, PHOTOGRAPHY

591B Photographic Processes (5)
Prereq: grad rank. Continuation of 591A.

591C Photographic Processes (5)
Prereq: grad rank. Continuation of 591A and 591B.

594B Color Materials and Methods (5)
Prereq: grad rank. Continuation of 594A.

691B Graduate Study in Photographic Arts (5-10)
Prereq: grad rank. Continuation of 691A.

691C Graduate Study in Photographic Arts (5-10)
Prereq: grad rank. Continuation of 691A and 691B.

892 Photography Studio Thesis (5-10)

ANTHROPOLOGY

571 Ethnology (5)
Prereq: perm. Cross-cultural survey of structure and process in various cultures, including consideration of kinship, economics, politics, and ideology.

599 Readings in Anthropology (1-3, max 8)
Prereq: 571 or perm. Supervised readings in all areas of anthropology. Make individual arrangements with particular faculty member.

At Sugarloaf Mountain Ampitheatre, the epic outdoor drama, "Tecumseh!" brings you the vivid spectacle of the struggle for the Northwest Territory. Performed from June through September near Chillicothe, Ohio. Call: (614) 775-0700.

BOTANY

695 Thesis (1-15)
Prereq: perm. Formal presentation of results of research as partial fulfillment of requirements for MS degree. Hrs not counted toward degree.

780 Advanced Topics in Botany (2-6)
Prereq: perm. Advanced discussion courses offered when there is sufficient student interest in a significant current topic.

BUSINESS ADMINISTRATION

510 Production Management (4)
Emphasis on organization of production function and its relationship to other management and functional activities.

510W Production Management (3)
Emphasis on organization of production function and its relationship to other management functional activities. Accelerated workshop course for MBA students.

695 Thesis (1-15)

697 Independent Research /1-15)
Research in selected fields of business administration under direction of faculty member.

698 Internship (1-15)

BUSINESS LAW

500 Law and Society (4)
Conceptual approach to origin, nature, structure, functions, and procedures of law with study of contractual relationships.

693 Readings (1-15)
Readings on topics selected by student in consultation with a faculty member.

697 Independent Research (1-15)
Research in selected fields under direction of a faculty member.

CHEMISTRY

530 Introduction to Toxicology (4)
Prereq: Chem 302 or 307. Introduction to chemical, clinical, environmental, and forensic aspects of toxicology, types of poisons, how poisons act, treatment of acute poisoning, and control of poisonous materials.

695 Research and Thesis (as recommended by dept)

891 Inorganic Chemistry Seminar (1)
Required of inorganic chemistry majors.

892 Organic Chemistry Seminar (1)
Selected topics from current literature presented by participating students and staff.

893 Analytical Chemistry Seminar (1)
Required of analytical chemistry majors.

894 Physical Chemistry Seminar (1)
Required of physical chemistry majors.

895 Doctoral Research and Dissertation (as recommended by dept)

COMPARATIVE ARTS

581 Independent Study (1-6)
Prereq: perm.

712 Music in the Renaissance (4)
Cultural history of music c. 1410-c. 1600.

777 American Theater and Drama (4)

881 Individual Problems (4-15)

895 Dissertation (as recommended by dept)

721 Multivariate Analysis (5)
Prereq: 720. Chi-square, linear regression and nonlinear relations, partial correlation, multiple correlation and regression, various methods of correlation, sampling distributions, confidence intervals, simple analysis of variance and covariance. Use of computer statistical packages and other statistical aids.

731 Computer Science Applications in Education I (5)
Prereq: 720 or perm. Application of data processing and computer science techniques to problems in education.

732 Computer Science Applications in Education (5)
Prereq: 721 and 731 or perm. Matrix manipulation in FORTRAN, subroutines, object time format, computational algorithms, tape and disk storage, storage in common, data packing, matrix mapping, and other advanced programming techniques.

895 Dissertation (2-15)
Prereq: perm.

Guidance, Counseling, and Student Personnel

520 Elementary School Guidance (4)
Prereq: perm. Rationale, scope, and nature of elementary school guidance; multiple approaches to provision of guidance services in elementary school with emphasis upon role of elementary school counselors in child study, counseling, consultation, classroom group guidance, and coordination.

530 Foundations of Guidance (4)
Prereq: perm. Rationale, scope, and nature of guidance and counseling services in educational and community settings; multiple approaches to provision of such services with emphasis on role of counselor in needs assessment, program planning, counseling, consultation, and coordination of services for diverse populations. Study of problems, issues, trends, and ethical responsibilities in field of guidance and counseling.

531 Appraisal I (4)
Prereq: 520 or 530 or 540. Concepts of reliability and validity, as applicable to appraising human characteristics, set stage for considering critical role that clinical judgment plays in professional helping. Emphasis on basic appraisal techniques, including diagnostic interviewing, observational systems, rating scales, interactional analysis, and educational and psychological testing. Testing portion provides introduction to intelligence, achievement, aptitude, perceptual, vocational, and personality (objective and projective) measures.

534 Dynamics of the Adolescent (4)
Prereq: 520, 530, 540. Theories of adolescence; research literature on adolescent; case studies of selected adolescents; general coverage of psychological, social, intellectual, moral, and physical development of adolescents.

537 Information Services (4)
Prereq: 520 or 530 or 541. Collection, evaluation, classification, and use of basic information involved in careers and socio-personal development. Emphasis upon career aspects of counseling and guidance and topical areas such as drug and alcohol education and abuse, sex education, marriage and family education, death and dying, sex, age, and race bias.

550 Guidance and Counseling in Groups (5)
Prereq: 520, 530 or perm. History, theory, techniques, and research of group counseling and group guidance in educational settings. Lectures, demonstrations, and group experience.

551 Group Dynamics, Theory and Research (3)
Prereq: 520/530 or perm. History, theory, techniques, and research concerning group dynamics. Exploration of leadership styles and interventions related to group counseling/encounter models, group process as it relates to community mental health and educational settings, lecturers, demonstrations, and lab.

555 Counseling Theory and Techniques I (5)
Prereq: 520 or 530 or 541. Experiential phase of course gives students practice in using communication counseling and relationship skills in preparation for counseling practicum and/or field experience. Didactic phase of course includes study of analytic (Freud, Jung, and Adler) behavior modification, client-centered, and rational-emotive theories of counseling.

655 Counseling Theory and Techniques II (5)
Prereq: 555. Experiential phase of course gives students practice in using directives as well as interpretation, intervention, and structuring skills in counseling. Didactic phase includes study of gestalt, transactional analysis, reality, existential, and eclectic theories of counseling.

691 Seminar in Education (3)
Prereq: 35 grad hrs, perm. Student chooses area important to himself or herself, engages in library research, interviews, questionnaires, experimentation, etc. and writes research paper, in which his or her position is stated. Paper is then defended before a panel, who examine student on content as well as ideas. Professor acts in advisory capacity.

695 Thesis (2-10)

761 Practicum in Counselor Education (5)
Prereq: 760 and perm. (May be taken for total of 15 hrs) Experience in program development and professional counselor preparation activities. Includes the supervising of, consulting with, and education of pre- and in-service counselors. Other activities may include student and staff evaluation; school, college or agency organization of personnel programs; and the use of staff meetings for counselee study, staff consultation, and program management.

895 Dissertation (2-15)
Prereq: perm.

Higher Education

590 Higher Education (4)
Background and growth of higher education in the U.S. Present status of various types of institutions.

591 Community Colleges and Branch Campuses (4)
Prereq: 590 or perm. Special problems related to administration of community and junior colleges, branch campuses, vocational and technical colleges, and adult education programs.

COMPUTER SCIENCE

553 Introduction to Digital Computer Programming for Engineering and Physical Science (5)
Computer solution of problems involving extensive numerical calculations as found in physical sciences, engineering, and numerical mathematics. Artificial language FORTRAN used.

554 Introduction to Digital Computer Programming for Behavioral, Educational, and Biological Sciences (5)
Problem organization for computer solution using scientifically oriented algorithmic languages such as FORTRAN and PL/1. Logical problem analysis, artificial language syntax and semantics, problem flow, testing and debugging, input/output, artificial intelligence, and use of auxiliary storage.

ECONOMICS

503 Fundamentals of Economics (4)
Analysis of prices, markets, production, wages, interest, rent, and profits.

503W Fundamentals of Economics (3)
Analysis of prices, markets, production, wages, interest, rent, and profits. Accelerated workshop course for MBA students.

504 Fundamentals of Economics (4)
Factors determining level of nation's economic activity and responsible for growth and stability in nation's economy.

534 Public Utilities (3-4)
Economic basis of public utility concept and its relation to business organization. Nature, scope, development, legal organization, and regulation of public utilities.

540 International Economics (4)
Economic relations of nations of the world. Economic basis for international trade and investments, mechanics of international exchange; tariffs, quotas, exchange control, cartels, and state trading as devices of economic nationalism; international economic cooperation with special reference to organizations affiliated with the United Nations.

552 Economic History of the United States (4-5)
Economic development of United States. Growth of banking, manufacturing, labor unions, and agriculture from colonial times to present.

693 Readings in Economics (1-6)
Readings and/or research in selected fields in economics under direction of staff member.

696 Master's Seminar (3)
Writing of scholarly papers in areas of economics. (Required of all master's candidates on nonthesis program.)

697 Independent Research (2-12)
Research in selected fields in economics under supervision of staff member.

EDUCATION

APPLIED BEHAVIORAL SCIENCES AND EDUCATIONAL LEADERSHIP

Educational Administration

601 Introduction to Educational Administration (4)
Nature and critical tasks of educational administration, problems and issues, purposes, situational factors, processes; qualifications for the job, personal assessment, preparations, in-service training, professional opportunity, and challenge.

611 Educational Law (5)
Prereq: 601. Selected principles of constitutional, statutory, case, and common law affecting schools and school personnel with special reference to Ohio school law.

621 Educational Finance (5)
Prereq: 601. Examination of economics and education; educational finance as type of public finance; theories, concepts, and issues related to programs designed to achieve equalization of educational opportunities; local, state, and federal programs of financial support for education.

631 Personnel Administration in Education (4)
Prereq: 601. Organization and implementation of personnel function. Covers organizational structure, staff procurement, staff selection, staff development, and conditions of service for people in the organization. Competencies in course conceptually oriented to provide understanding of personnel process.

640 The Principalship (4)
Prereq: 6 hrs including EdAd 601 and EdRs 501. Leadership theories and practices. Autonomous school; school/community organization; social-political forces; instructional leadership; teacher appraisal; elementary, middle, and secondary school administration.

641 The Principalship-Skill Competencies (4)
Prereq: 640. Designed for persons aspiring to become administrators. Individualized approach to developing job skills in elementary, middle, and secondary schools in actual job setting; however, simulation may be used by student when approved by instructor.

652 Problems in Administration of Education (1-4)
Prereq: perm. Intensive courses of one week or longer. Each course covers a phase of administration, such as business, personnel, facilities, etc. Credit to depend on length of course. (A workshop-type of organization given at specified times, usually during summer.)

661 Public Relations in Education (4)
Prereq: 601 or perm. Principles, program organization, agents, and media in effective public relations; models of communication; attitude change; development of problem situations and simulations of practical problem-solving techniques; examples from public school administration; higher education administration, and sports administration.

671 Community Education (4)
Prereq: grad rank. Intensive study of basic concepts of community education with special emphasis on role of school administrator in development and implementation of such programs.

690 Research in Educational Administration (2-6)
Prereq: perm of advisor. Individual research studies.

691 Seminar in Education (3)
Prereq: 35 hrs or perm. Special problems in educational administration.

742 Planning Educational Facilities (5)
Prereq: 601 or perm. Helps student to gain an appreciation for importance of facilities to educational enterprises. Acquaints student with principles, processes, and problems involved in identification of need for planning and acquisition of new facilities and for improvements to existing facilities.

890 Research in Educational Administration (2-6)
Prereq: perm of advisor. Individual research studies.

895 Dissertation (2-15)
Prereq: perm.

Educational Research and Evaluation

501 Introduction to Graduate Study (3)
History and purposes of graduate education. Methods of research in education. Selection, planning, and evaluation of research problems. Required of all graduate students in education.

510 Educational Measurements (4)
Application of measurement theory to selection and use of standardized tests. Reliability, validity, practicality, standard scores, development of testing programs, and problems of selection and assignment.

720 Educational Statistics I (5)
Tabulation and graphical representation of frequency tables, measures of central tendency, percentiles and percentile curves, measures of variability, standard scores, normal curve, introduction to sampling theory (large and small samples), testing statistical hypotheses, t-distribution and correlation.

784 Practicum in Higher Education Administration (3-6)
Prereq: perm. Practice in working under supervision in special administrative offices in the university including offices of president, vice presidents, academic deans, business offices, etc.

823 Readings and Research in Higher Education (1-3)
Prereq: perm. Independent study and specialized research projects for advanced students in field of higher education. (May be repeated for credit.)

CURRICULUM AND INSTRUCTION

501 History of Education in the United States (4)
Prereq: perm. Survey of educational developments from colonial America to present. Readings include both primary and secondary sources. Emphasis on institutional developments and cultural events which accompany them.

504 Social Structure and Change in Education (4)
Prereq: perm. Studies in interaction of social structure and educational reform. Concepts of class, status, bureaucracy, technocracy, and cultural pluralism assessed in their relationships to sociology of knowledge and educational alternatives.

510 Principles of Curriculum (4)
Major curricular movements, principles of curriculum development, forces affecting what is taught, curriculum evaluation, and recent trends.

520 Foundations of Reading Instruction—Elementary (5)
Prereq: EdRS 501. Current programs, materials, and practices in reading instruction; developmental concept, emphasizing optimum realization of pupil potential, and utilization of reading in total school curriculum.

522 Diagnosis: Reading/Language (5-15)
Prereq: 520 or 526. Correlation of variability in reading proficiency. incidence of retardation and disability. Proposed causes of failures and concept of multiple causation. Specialized materials and instructional efforst. Systematic observation of cases of reading disability and preparation of case reports.

523 Reading/Language: Laboratory (5-15)
Prereq: 522. Application of developmental approach to problem cases in reading instruction, participation in diagnostic examination, parent and teacher conferences, individual procedures in tutoring, staffing of cases, and preparation of reports. (Weekly group discussion period, lab sessions arranged)

526 Secondary Reading Instruction (5)
Prereq: 520 or 522 or perm. Materials, methods, and developmental patterns of adolescent within area of reading. Remedial programs and adaption of materials to adolescent.

551 Programs and Practices in Elementary Social Studies — Practicum (4)
Prereq: EdRS 501, perm. Trends in modern social studies curriculum.

560 Advanced Studies of Children (4)
Prereq: 20 hrs of education and/or psychology. Intensive study of basic research in child development from conception to maturity, and resultant implications for educational practices.

570 Nature and Needs of Exceptional Children and Youth (5)
Prereq: grad rank. Introductory course in special education at grad level. Major objective to provide graduate students with in-depth background and comprehensive understanding of nature and needs of exceptional children and youth, as well as a grasp of current issues and trends in field.

571 Problems in Education of Mentally Retarded Children and Youth (2-9)
Prereq: 6 hrs in special education and perm. Critical evaluation of selected current problems confronting teacher, consultant, specialist, or administrator concerned with education of mentally retarded children and youth.

574 Introduction to Learning Disabilities (4)
Prereq: 6 hrs in special education. Overview of field of learning disabilities: various theoretical approaches to remediation.

589 Problems in Learning Disabilities (2-9)
Prereq: 6 hrs in special education and perm. Critical evaluation of selected problems in area of learning disabilities.

596 Introduction to Educational Media (4)
Prereq: grad rank. Principles of instructional materials and media applied to teacher-student communication. Basic experiences in production of instructional materials and equipment operation. Research paper required. Lab.

610 Elementary School Curriculum (5)
Prereq: EdRS 501. Curriculum as a basic educational concern; issues involved in selecting and organizing content; systematic study of curriculum development in the elementary school.

611 Supervision of Instruction (4)
Basic concepts and theories of supervision, case studies of supervisory situations, and basic research in education and ancillary fields such as psychology, sociology, business administration, philosophy, and communications.

660 Advanced Principles of Teaching (4)
Critical appraisal of research in areas of learning and teaching.

690 Research in Education (2-6)
Individual study, under direct supervision of faculty, of a basic research problem, culminating in a written report.

691 Seminar in Education (3)
Prereq: 35 hrs or perm. Problems in education. Emphasis on research of special problems and development of a scholarly research paper.

695 Thesis (2-10)
Prereq: perm.

890 Research in Education (2-12)
Prereq: admission to advanced standing.

895 Dissertation (2-15)
Prereq: perm.

PROFESSIONAL LABORATORY EXPERIENCE

560 Internship in Education (3-9)
Prereq: 9 qtr hrs graduate work in education and perm of director of field experience and student's graduate advisor. Teaching certificate and experience for interns in administration and supervision. Internship in school administration, supervision of instruction or classroom teaching for minimum of 1 qtr, full-time. Following brief period of orientation to school and community, student assumes increasing responsibility under direct supervision of staff member of school system. Student expected to function as classroom teacher with regular supervision, as team member in team-teaching situation, or as assistant to administrator or supervisor. Weekly seminar conducted by college staff and public school associates.

561 Internship in Education (3-9)
Prereq: 9 qtr hrs graduate work in education and perm of director of field experience and student's graduate advisor. Continuation of 560. See 560 for description.

760 Internship in Education (3-9)
Prereq: 9 qtr hrs graduate work in education, perm of director of field experience and student's graduate advisor. Teaching certificate and experience for interns in administration and supervision. Internship in school administration, supervision of instruction, or classroom teaching for minimum of 1 qtr, full-time. Following brief period of orientation to school and community, student assumes increasing responsibility under direct supervision of staff member of school system. Student expected to function as classroom teacher with regular supervision, as team member in team-teaching situation, or as assistant to administrator or supervisor. Weekly seminar conducted by college staff and public school associates.

ENGINEERING AND TECHNOLOGY

Chemical

681 Research in Chemical Engineering (1-15)

695 Thesis (1-15)

Electrical

590 Special Topics (1-6)
Prereq: perm. Provides structure whereby students and faculty may study current topics or topics of special interest before formal courses have been established for these areas.

590Y Digital Signal Processing (3)
Prereq: perm. Digital techniques for various signal processing applications. Emphasis on design and realization of digital algorithms for performing specific filtering function. Topics include: sampled-data signals, discrete-time system analysis; frequency response and realization of discrete-time systems; infinite impulse response digital filter design; finite impulse digital filter design; discrete and fast Fourier Transforms.

681 Research in Electrical Engineering (1-6)
Prereq: perm.

695 Thesis (1-9)
Prereq: perm.

881 Doctoral Research (1-9)
Prereq: perm.

890 Special Topics in Electrical Engineering (3)
Current developments in electrical engineering. Selected topics offered yearly. May be taken for repetitive and variable credit.

895 Dissertation (1-9)
Prereq: perm.

Industrial and Systems

504 Applied Engineering Statistics (3)
Prereq: calculus or perm. Introduction to efficient methods for data collection and analysis. Application of basic statistical tests, techniques, and experimental design concepts to engineering and science data problem areas. 3 lec. (Not for graduate credit for ISE majors.)

530 Engineering Economy (3)
Prereq: perm. Economic analysis of engineering projects. Intended to provide both basic theory and practical experience in comparing alternatives for capital expenditures, alternatives for providing needed production or services, and alternatives for income generation. (Not for graduate credit for ISE majors.) 3 lec.

536 Project Management (3)
Development and utilization of network techniques to schedule activities, develop financial budgets, allocate resources, and control progress and costs of practical projects. (Not for ISE graduate majors.) 3 lec.

544 Applications of Mathematical Programming (4)
Prereq: course in linear algebra or perm. Linear systems techniques for optimum solution of industrial, engineering, and other problems. Topics include assignment and transportation problems, simplex method, revised simplex, dual problem, and sensitivity analysis. 3 lec.

559 Individual Research Problems in Behavior Systems Engineering (3)
Prereq: perm.

589 Special Investigations (1-6)
Prereq: perm.

590 Advanced Problems in Computer Application (1-6)
Prereq: perm. Special investigations of advanced systems and industrial engineering problems involving use of digital or analog computers.

681 Research (1)12)
Prereq: perm.

694 Nonthesis Independent Research (3)
Prereq: perm.

695 Thesis (1-12)

ENGLISH LANGUAGE AND LITERATURE

569 Studies in Literature (5)
Advanced study of a period or of some aspect of a period (a movement, a genre, author, etc.) of English or American literature. Designed to supplement undergraduate training and to provide intensified training in areas of concentration. Following areas scheduled :
(P) American literature, Civil War to WW1

695 Thesis (5-10)

775 Seminar in Literature (5 or 10)
Prereq: PhD applicancy.

780 Special Studies Seminar (1-5)
Prereq: PhD applicancy or perm. Seminars in individual writers and individual works. Offered when (a) there is student demand and/or (b) widely recognized specialist on staff.

781 Research (1-15)
Covers period when student is doing necessary research for prospectus. Also used to cover special research courses—e.g., problems in editing, problems in historical research, etc.

782 Research (1-15)
Continuation of 781. See 781 for description.

895 Dissertation (1-15)

FILM

780 Individual Problems (1-5)
Prereq: perm. Preparation and production of a motion picture. Student must have skills necessary for completion of project. May be repeated.

781 Individual Readings (1-5)
Prereq: perm. Readings in works related to motion pictures. Selections by student in consultation with faculty member.

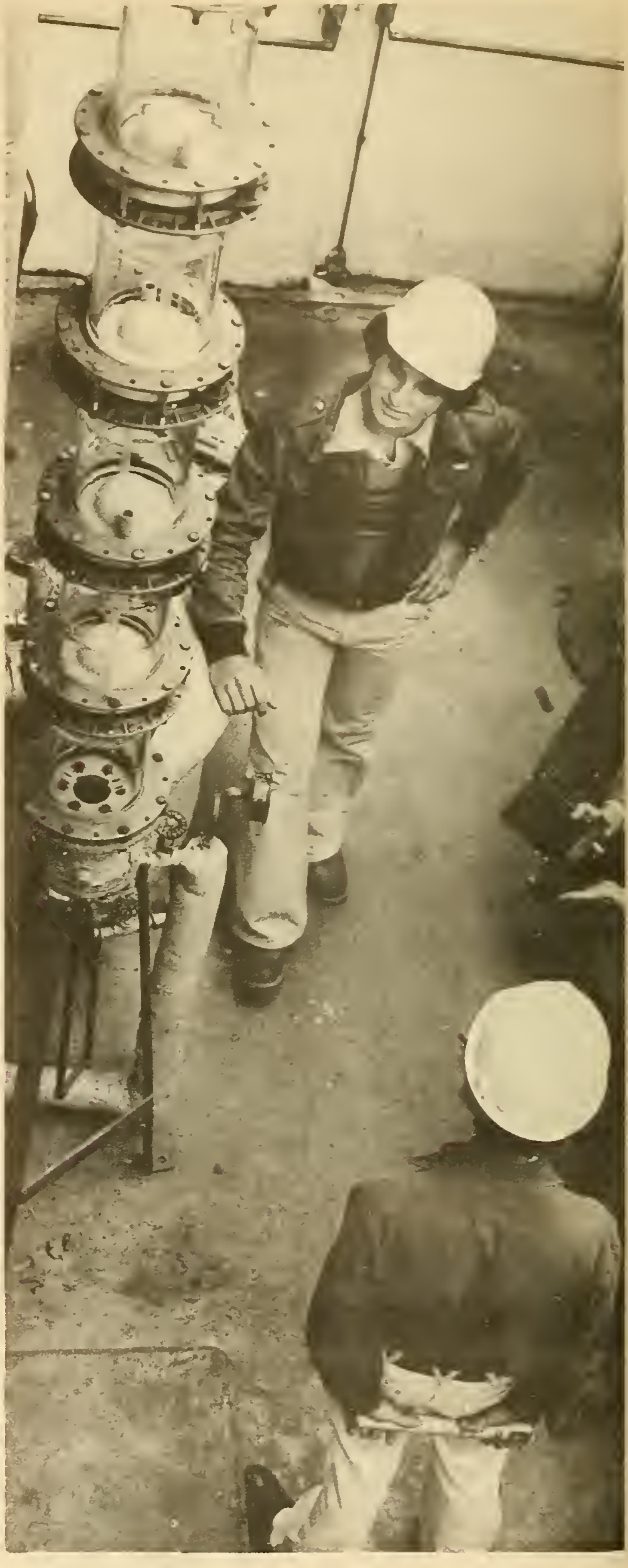
895S Film Studio Thesis (1-10)
2nd yr.

895W Film Written Thesis (1-10)
2nd yr.

FINANCE

525 Managerial Finance (4)
Role of financial management in business enterprise; financial analysis; planning needs for short-term and long-term funds; planning for profits; capital budgeting; internal management of working capital and income; raising funds to finance growth of business enterprises.

525W Managerial Finance (3)
Role of financial management in business enterprise; financial analysis; planning needs for short-term and long-term funds; planning for profits; capital budgeting; internal management of working capital and income; raising funds to finance growth of business enterprises. Accelerated workshop course for MBA students.



555 International Finance (4)
Problems in international finance. Financing international trade and other transactions; foreign exchange market and exchange rates; international payments system. Foreign central banking and current developments in international financial cooperations.

693 Readings (1-15)
Readings on topics selected by student in consultation with faculty member.

695 Thesis (1-15)

697 Independent Research (1-15)
Research under direction of faculty member.

698 Internship (1-15)

FOREIGN LANGUAGES AND LITERATURES

Modern Languages (Professional Course)

545 Teaching of Modern Foreign Languages (4)
Problems confronting students on level of instruction (elementary school, secondary school, college) at which they teach or plan to teach.

French (Romance)

603 Seminar (5, max 10)
Advanced study of a period, movement, genre, work, or author in 1 of the following areas: (a) Medieval (b) Renaissance (c) 17th century (d) 18th century (e) 19th century (f) 20th century. May be repeated when topic is changed.
Continuation of 602.

611 French for Graduate Reading Requirement (5)
Preparation for reading knowledge examination required by certain departments for master's and PhD degrees. *(Credit does not count toward degree.)*

612 French for Graduate Reading Requirement (5)
Continuation of 611. See 611 for description.

695 Thesis (as recommended by dept)
Prereq: perm.

698 Independent Study in French (1-4, max 4)
Prereq: perm. Normally, final grade is recorded when departmental major examination has been passed.

German (Germanic)

603 Seminar (5, max 10)
Continuation of 602. Topics to be announced.

611 German for Graduate Reading Requirement (5)
Preparation for reading knowledge examination required by certain departments for master's and PhD degrees. *(Credit does not count toward degree.)*

612 German for Graduate Reading Requirement (5)
Continuation of 611. See 611 for description.

695 Thesis (as recommended by dept)
Prereq: perm.

698 Independent Study in German (1-4, max 4)
Prereq: perm. Normally, final grade is recorded when departmental major examination has been passed.

Spanish (Romance)

603 Seminar (5, max 10)
Advanced study of a period, genre, work or author in 1 of the following areas: (a) literature of the Middle Ages, (b) Renaissance, (c) modern Spanish literature, (d) Latin American literature. (May be repeated when topic is changed.)
Continuation of 602.

611 Spanish for Graduate Reading Requirement (5)
Preparation for reading knowledge examination required by certain departments for master's and PhD degrees. *(Credit does not count toward degree.)*

612 Spanish for Graduate Reading Requirement (5)
Continuation of 611. See 611 for description.

695 Thesis (as recommended by dept)

698 Independent Study in Spanish (1-4, max 4)
Prereq: perm. Normally, final grade is recorded when departmental major examination has been passed.

GEOGRAPHY

543 Geography of Appalachia (5)
Topical and regional survey of Appalachia with emphasis on settlement and rural and urban land use. The national role of Appalachia will be assessed especially in regard to coal, conservation, reclamation, and recreation.

690 Geographic Studies (1-5, max 10)
Supervised studies in fundamentals of geographic research: (E) political, (F) regional

695 Thesis (1-15)

GEOLOGY

691 Geologic Studies (1-6, max 12)
Supervised studies in fundamentals of geologic research.

693 Research in Geology (1-3, max 6)

695 Thesis (1-9)

HEALTH, PHYSICAL EDUCATION AND RECREATION

500 Guided Independent Study (1-2)
Prereq: perm. Selected problem with written report based on research.

507 Problems of Competitive Athletics (3)
Problems of athletic competition at all age levels.

550 Practicum in Athletic Administration (1-5, max 5)
Prereq: grad rank, 510 or perm. Supervised work experience in various aspects of administration of intercollegiate and interscholastic athletic program.

555 Psychology of Coaching (3)
Prereq: perm. Analysis of psychological factors and principles with special reference to emotional, attitudinal, and personality problems of athletes.

595 School Health Problems (5)
Organization and administration of school health programs including school and community relationships.

611 Special Problems in Physical Education (1-6)
Prereq: 691, perm. Individual research and experimentation of professional problems. Identification of pertinent problems and planning effective attack toward potential solution.

652 Physical Diagnosis (4)
Program development relative to student health for physical education instructors, coaches, and allied professionals. Techniques of physical examinations and treatment considerations pertaining to common injuries and illnesses suffered in physical education and athletics.

660 Internship in Sports Administration (1-5)
Prereq: grad rank in sports administration, perm. (Cr-F grading only). Supervised professional work experience in approved sports-oriented organization.

691 Seminar in Physical Education (4)
Research and investigation in health, physical education, and recreation. Topics and problems suitable for thesis writing, methods of research, writing practice, and critical analysis of outlines for research study.

692 Foundations of Physical Education (5)
Philosophical, historical, and psychosocial bases of physical education and sport.

HEARING AND SPEECH SCIENCES

695 Thesis (1-15)

731 Seminar in Speech Pathology (4-5)
Prereq: perm. Current literature and recent research, changing topic each qtr. *(May be repeated for credit.)*

735 Practicum in Diagnosis and Therapy (1-15)
Diagnosis, planning of therapy, therapy experience. 1 staff meeting per wk. May be repeated. Credit beyond 3 hrs must be approved.

736 Clinical Internship (1-15)
Prereq: 3 qtrs of graduate practicum experience. Approval of coordinator of clinical services. Graduate students will be placed in clinical facilities for one quarter of experience. Facilities used may be on campus or cooperating clinics or agencies in other areas. It is expected that student will experience all types of diagnostic or therapy practicum during this quarter, under supervision of certified therapist or audiologist. Placements may be made on a part-time basis, with 1 minimum assignment being 3 full days per wk.

794 Directed Study and Research (1-15)
Must be approved by staff prior to registration. Final product reviewed by faculty committee. *(May be repeated for credit.)*

895 Dissertation (1-15)

HISTORY

508B Foundations of Modern America: Reconstruction and New South after 1865 (5)
U.S. in years following the Civil War; administrations of Andrew Johnson and Ulysses S. Grant; reconstruction for South; southern regional development to end of 19th century.

510B United States in Recent Times, 1920-1939 (5)
Temper and culture of 20s; Republican ascendancy and Democratic revival; Great Depression; F. D. Roosevelt and New Deal.

558B Early Modern Europe, 1648-1715 (5)
Main political, economic, and cultural developments. Overseas expansion, commercial revolution, rise of absolutism, scientific revolution, and Thirty Years' War.

572C Balkans in 20th Century, 1878 to Present (5)
Historical, cultural, and ethnic background of Balkan peoples. Social, economic, political, and intellectual developments in the Balkans; communication of Southeast European states.

589 Later Medieval England, 1307-1485 (5)
Comprehensive examination of political, social, intellectual, ecclesiastical, and economic aspects of period.

598A Problems in History (American) (1-6)
Prereq: 24 hrs, perm. Intensive individual work either in research or individual systematic reading along lines of student's special interest and under supervision of staff members.

598B Problems in History (European) (1-6)
Prereq: 24 hrs, perm. Intensive individual work either in research or individual systematic reading along lines of student's special interest and under supervision of staff members.

598C Problems in History (World) (1-6)
Prereq: 24 hrs, perm. Intensive individual work either in research or individual systematic reading along lines of student's special interest and under supervision of staff members.

695 Thesis (as recommended by dept)

798A Problems in History (American) (1-6)
Prereq: 24 hrs, perm. Intensive individual work either in research or individual systematic reading along lines of student's special interest and under supervision of staff members.

798B Problems in History (European) (1-6)
Prereq: 24 hrs, perm. Intensive individual work either in research or individual systematic reading along lines of student's special interest and under supervision of staff members.

798C Problems in History (World) (1-6)
Prereq: 24 hrs, perm. Intensive individual work either in research or individual systematic reading along lines of student's special interest and under supervision of staff members.

894 Independent Study (1-16)
Prereq: Eligibility determined by grad faculty.

895 Dissertation (as recommended by dept)

HOME ECONOMICS

GENERAL HOME ECONOMICS

692 Research (2-4, max 8)
Prereq: perm. Independent investigation in 1 of 5 areas.

695 Thesis (2-10)
Prereq: approval by chairman of dept in which work is performed.

HUMAN DEVELOPMENT AND FAMILY ECOLOGY

562A Pluralistic Life Styles (2)
Prereq: jr or sr rank or perm. Analysis of emerging pluralistic marriage and family life patterns in American society.

562B Parenthood (2)
Prereq: jr or sr rank, perm. Analysis of dynamics of parenthood.

CONSUMER SERVICE AND EDUCATION

545 Current Developments in Home Economics Education (4)
Prereq: perm. Trends and development at secondary and post-high school levels in relation to curricular developments, evaluation procedures, legislation affecting programs, and research.

INDUSTRIAL TECHNOLOGY

550 Advanced Work in Technical Areas (3-9)
Extension of capability in technical activity beyond level of basic competence. May be repeated in different areas for maximum credit of 9 hrs. 6 lab.

565O Workshop in Industrial Education (1-6)
Prereq: teaching experience. Special workshop for in-service industrial arts teachers. 565O: innovative programs.

681 Research (3-9)
First enrollment is for purpose of selecting and planning potential graduate research. Plan must be approved by graduate committee before the project is conducted. Campus registration required during term that final report is being prepared.

691 Seminar (3-9)
Topics to be announced. Reenrollment permitted when topics are changed.

INTERNATIONAL AFFAIRS

500 Introduction to Graduate Studies (2)
An interdisciplinary introduction to graduate study of Africa, Asia, and Latin America, including research methodologies and the nature of area studies.

695 Thesis (1-9)
Prereq: perm.

INTERPERSONAL COMMUNICATION

501 Introduction to Graduate Study (5)
Definition of "field" of communication, methods of structur-

ing field, and research concerns within areas of field. Examination of theory and function of "research." Analysis of representative types and methods of research, including reporting results.

525 Direction of Forensic Programs (3)
Organization of forensic programs, management of contests, and tournaments, principles of coaching and judging.

535 Theories of Argument (3)
Relations between formal logic and rhetorical systems of arguments; intensive study of fallacies and of experimental findings related to study of argument.

542 Communication and Persuasion (4)
Prereq: perm. Process of communication and attitude change, survey of general theories and typical research, analysis of contemporary persuasion, projects in experimental persuasion.

548 Cross-Cultural Communication (4)
Analysis of processes and problems of communication as affected by national cultures; effects of differences in languages, values, meaning, perception, and thought.

601 Seminar in Development (4)
An interdisciplinary investigation into selected problems of development. Intended to provide an interdisciplinary perspective into the nature of sociological, political, economic, and psychological change in Africa, Asia, and Latin America.

629 Seminar in Speech Education (4)
Isolation and analysis of problems of teaching speech; individual research projects and reports.

693 Independent Study (1-15)
Prereq: perm. Readings on special problems under planned program approved by advisor. Projects must be approved prior to registration.

694 Research (1-12)
Prereq: perm. Individual research on special problems. Projects must be approved prior to registration.

695 Thesis (1-15)

740 Theories and Models of Communicative Process (3-5)
Prereq: perm. Survey and analysis of current theories and models of communicative process, including their respective points of integration and divergence. Emphasis on relation between structure of communicative process and its identifiable ingredients as revealed in models.

745 Communication Process in Small Groups (4)
Theory and research in group social system, group modification of individual judgment, leadership styles, group vs. individual goals, and intragroup lines of communication in small problem-solving and learning groups.

766 American Public Address in Recent Times — 1880-1933 (4)
Impact of populism, imperialism, progressivism, world war, normalcy, and depression on public address.

794 Research (3-12)
Prereq: perm. Individual research on special problems. Projects must be approved prior to registration.

895 Dissertation (1-24)

JOURNALISM

511 Newspaper and Communications Law (4)
Principles and case studies in communications law, constitutional guarantees, libel, privacy, contempt, privilege, copyright, and government regulatory agencies.

541 Magazine Feature Writing (4)
Writing and marketing factual magazine feature articles of various types. Finding subjects, securing photographs, writing articles, and surveying markets.

601 News Media Development and Procedures (1-15)
Prereq: perm. Current prodedures of mass media, including

latest developments in news gathering, writing, editing, and graphic presentation. Intended for students without undergraduate journalism major.

662 Graduate Internship (6)
Prereq: prior perm. Conference course for students who have completed internship with approved organization. Student will submit comprehensive report analyzing the internship experience.

691 Research in Journalism and Communications (1-15)
Prereq: perm.

695 Thesis (1-6)

790 Independent Study (1-4)
Prereq: written proposal and perm prior to registration. Student can pursue personal scholarly interests under faculty supervision and guidance.

The sturdy old-fashioned Athens Dairy Art Barn, originally built in 1912, has been converted into a gallery and studio for regional arts and crafts. In the summer, the project sponsors weekly art workshops for children and adults as well as national quilting and pottery exhibits. For programming information call (614) 594-6647.

812 Government and Mass Communications (4)
Communications and political order. Theory and structure of democratic and totalitarian communications systems, relationships between government and mass communications in modern world.

LINGUISTICS

590 Language and Culture (5)
Prereq: 550 or concurrent. Developing personal insights into similarities and differences of language behavior in a variety of linguistic and cultural contexts.

572 Theories of Grammar (5)
Prereq: 570. Study of competing contemporary models of grammatical description.

600 Studies in Linguistics (1-4)
Prereq: perm. Directed individual investigation of a particular area of interest in linguistics.

800 Readings in Linguistics (2-5)
Prereq: perm. Directed readings for advanced students.

MANAGEMENT

525 Labor Relations (4)
Prereq: perm. Nature of collective bargaining; labor-management conflict or consensus; grievance procedures; arbitration; contract administration.

530 Information Management (4)
Information networks and flows in organizations within a total-systems framework.

540 Organizational Behavior — Leadership and Motivation (4)
Prereq: perm. Conceptual framework of behavioral sciences to management and organizations. Motivation and leader behavior within organizational settings.

540W Organizational Behavior — Leadership and Motivation (3)
Conceptual framework of behavioral sciences to management and organizations. Motivation and leader behavior within organizational settings. Accelerated workshop course for MBA students.

693 Readings (1-15)
Readings on topics selected by student in consultation with faculty member.

697 Independent Research (1-15)
Research under direction of faculty member.

MARKETING

502 Marketing Principles (4)
Principles of marketing management with emphasis on practices and problems of marketing manager and environment in which he or she operates, supplemented with business cases.

501W Marketing Principles (3)
Emphasis on practices and problems of marketing manager and environment in which he or she operates, supplemented with business cases. Accelerated workshop course for MBA students.

541 International Marketing (4)
Marketing problems, opportunities, and organization of multinational firms to serve overseas markets. Government aids and impediments, and a comparison of markets and marketing techniques in U.S. and foreign countries.

544 Consumer Behavior (4)
Individual, social, and cultural influences that affect consumer behavior. Consideration of explanatory and predictive models.

697 Independent Research (1-15)
Research under direction of faculty member.

698 Internship (1-15)

MATHEMATICS

510 Matrix Theory (5)
Prereq: grad rank. Primarily intended for science and engineering majors. Topics include matrix algebra and matrix calculus, matrix solutions of systems of linear equations, eigenvector and eigenvalue problems, quadratic forms, and inner product spaces.

MUSIC

HISTORY AND LITERATURE

528 Jazz History (3)
A study of the various musics collectively known as jazz. Exploration of rhythmic, melodic, and harmonic features with emphasis upon Blues, Dixieland, Ragtime, Boogie Woogie, Swing, Bop, Cool Jazz, and Contemporary jazz.

INDEPENDENT STUDY

600 Independent Study (1-15)
Prereq: perm.

695 Thesis (as recommended by dept) (1-6)

PHILOSOPHY

692 Special Studies (1-15, max 15)
Prereq: perm. Advanced study of philosopher, movement, or problem, to provide intensified training in area of concentration related to but not necessarily that of student's thesis.

695 Thesis (1-15, max 15)

PHYSICS

503 Digital Computing Methods in Physics (3)
Practical computer programming (FORTRAN, etc.) with special emphasis on problems in physics.

625 Atomic and Molecular Spectra (4)
General survey, using elementary quantum mechanics. 3 lec, problems.

695 Thesis (as recommended by dept)

696 Special Study (1-15)
Supervised individual study at beginning graduate level. Can be used for writing MS or MA paper.

727 Introduction to Nuclear Physics (4)
Continuation of 726. 3 lec, problems.

894 Special Topics (1-4)
Lectures on special topics such as optical physics, continuum mechanics, advanced quantum theory, or other subjects not specified under regular course headings.

895 Doctoral Research and Dissertation (as recommended by dept)

896 Special Study (1-15)
Supervised individual study in preparation for research.

POLITICAL SCIENCE

511 Public Administration (5)
Development of administrative organizations, current ideas in organizational theory, nature of federal bureaucracy, fiscal management, and control of administrative action.

512 Public Personnel Administration (5)
Analysis of philosophy, problems, and procedures of public personnel management. Recruitment, training and promotion policies, position classification, and employer-employee relations.

590 Studies in Political Science (1-5)
Intensive study of special topics, including American government, international relations, political theory, and public administration.

591 Research in Political Science (1-5, max 10)
Individual supervised research.

598 Problems in Political Science (1-5, max 10)
Research or directed reading based on student's special interest.

695 Thesis (1-10)
Prereq: perm.

PSYCHOLOGY

525 Elementary Experimental Psychology (5)
Prereq: perm. First course in designing experiments for graduate students who did not have such an undergraduate course. *(Does not carry degree credit. Not open to students who have had Psy 226.)* 2 lec, 4 lab.

559 Field Work in Psychology (1-15)
Prereq: perm. Applied supervised psychological practice in field-work agency approved by dept. *(Does not count toward degree credit.)* May be repeated. 1-15 lab.

590 Readings in Psychology (1-5, max 20)
Prereq: perm. To broaden training of master's or doctoral level students in areas in which they need further work which cannot be obtained through specific courses at present.

621 Intermediate Statistics for Behavioral Sciences (5)
Prereq: perm. Statistical inference and most commonly used tests of hypotheses involving normal curves, t test, chi-square, and F distributions; introduction to probabilistic classification and Bayesian statistics. 4 lec, 1 lab.

Grover Center is the place to play basketball, volleyball, handball, table tennis, paddleball, and lift weights, with sauna, showers, and locker rooms available at no extra charge. Open daily throughout the year. Outdoor basketball courts, intramural fields, and jogging and biking paths are located nearby.

633 Psychology of Personality (3)
Prereq: perm. Development and organization of personality; evaluation of major theoretical viewpoints; review of research on personality structure, dynamics, and change.

695 Thesis (1-10)
Prereq: perm.

704 Human Learning and Cognitive Processes (5)
Prereq: perm. Theory and research in human cognitive processes such as learning, memory, concept formation, problem solving, mental operations, consciousness, motor skills, and language within an information-processing point of view.

759 Field Work in Psychology (1-15)
Prereq: perm. Applied supervised psychological practice in a field-work agency approved by dept. *(Does not count toward degree credit.)* May be repeated. 1-15 lab.

790 Readings in Psychology (1-5, max 20)
Prereq: perm. To broaden training of master's or doctoral level students in areas in which they need further work which cannot be obtained through specific courses at present.

791 Research (1-5)
Prereq: perm. (May be repeated.)

891 Research in Psychology (1-6)
Prereq: perm.

895 Dissertation (1-15)
Prereq: perm.

QUANTITATIVE METHODS

697 Independent Research (1-15)
Research under direction of a faculty member.

RADIO-TELEVISION

552 TV Newsfilm Production and Editing (3)
Prereq: perm. Principles and practices of TV newsfilm production and editing.

694 Independent Study (1-12)
Prereq: perm. Individual research on special problems. Projects must be approved prior to registration.

753 Broadcasting Law and Regulations (4)
Socio-political control of broadcasting; effect of laws, regulations, and public pressures upon programming policies. 5 lec.

755 Broadcasting Programming (4)
Programming concepts, resources, costs, selection, and scheduling. 5 lec.

894 Independent Study (1-12)
Prereq: perm. Individual research on special problems. Projects must be approved prior to registration.

SOCIOLOGY

505 Readings in Sociology (1-5, max 15)
Independent directed readings designed to expand student's understanding in selected area of interest. Students may not preregister. Registration only by perm of instructor.

514 Contemporary Social Movements (5)
Organized movements resulting in major social changes: revolutionary, nationalistic, reform, religious. Agitation, leadership, ideology. Case studies of typical movements.

526 Industrial Sociology (5)
Interrelationships between industrial and social order. Social organizations and processes with formal and informal structures of industrial unit.

553 Research Problems in Sociology (1-5, max 15)
Prereq: 550 and written perm. Students may not preregister. Registration only by perm of instructor. Individual research problem areas in which student has demonstrated ability and interest.

605 Graduate Seminar (4-6)
Prereq: perm. Critical examination of selected topic.

690 Independent Study (1-5, max 10)
Prereq: Written perm of departmental grad chairman and 40 grad hrs in sociology. For grad students in good standing who wish to undertake independent study toward M A degree under guidance of faculty member.

695 Thesis (1-12, max 12)

THEATER

535 Practicum in Design and/or Technical Production (2-6)
Prereq: perm. Practical application of design and technical theory.

639 Independent Studies in Design and/or Technical Theater (1-6)
Prereq: perm.

695 Thesis (1-12)
Prereq: perm.

709 Independent Studies in Theater Management (1-6)
Prereq: perm.

713 Internship in Acting (12)
Prereq: 510A,B,C; 610A,B,C, and perm. Residence with professional theatrical company.

719 Independent Studies in Acting (1-6)

723 Internship in Directing (12)
Prereq: 520A,B,C; 620A,B,C. Residence with professional theatrical company.

729 Independent Studies in Directing (1-6)
Prereq: perm.

733 Internship in Design or Technical Production (12)
Prereq: 2nd or 3rd yr grad production design major. Residence with professional theatrical company.

ZOOLOGY AND MICROBIOLOGY

ZOOLOGY

576 Ecology Laboratory (2)
Prereq: 575. Field course for animal ecology, consisting of visits to and studies of various local terrestrial and aquatic communities. 4 lab.

575 Animal Ecology (3)
Prereq: perm. Relation of animals to their habitat, to each other, and to man. General principles of terrestrial and aquatic communities, ecosystems, and man's involvement. 3 lec.

685 Research in Zoology (1-15)
Prereq: perm. Unspecified research, not directly applicable to a thesis.

695 Master's Thesis (1-15)
Prereq: perm. Research directly applicable to a thesis.

895 Doctoral Dissertation (1-15)
Prereq: perm. Research directed toward doctoral degree.

MICROBIOLOGY

511 General Microbiology (6)
Prereq: perm. Properties of microorganisms and their importance in our environment. Laboratory training in common microbiological methods. 3 lec, 6 lab.

518 Epidemiology (4)
Prereq: 511, 537 or 541 and perm. Model of spread, cure, and prevention of communicable diseases in humans. 3 lec, 2 lab.

682 Advanced Topics (1-3)
Prereq: perm. Specialized topics not otherwise available to advanced students.

685 Research in Microbiology (1-15)
Prereq: perm. Unspecified research, not directly applicable to a thesis.

695 Master's Thesis (1-15)
Prereq: perm. Research directly applicable to a thesis.

895 Doctoral Dissertation (1-15)
Prereq: perm. Research directed toward doctoral degree.

New Summer Courses

Undergraduate

INTERPERSONAL COMMUNICATION

301 Empirical Research Applications in Communication (5)
Prereq: jr rank, MATH 113 or equiv. Provides undergraduates with principles and basic skills necessary to criticize research literature, develop minimal proficiencies in structuring designs basic to descriptive and experimental studies, including data collection, analysis, and presentation techniques in communication research.

MUSIC

244C Symphonic Band (1)
Prereq: perm (audition). *R. Socciarelli.*

250 University Singers (2)
Prereq: perm (audition). *I. Zook.*

421G The Literature of Band Music (3)
Prereq: perm.

476 Workshops and Institutes (1-4)
Prereq: perm. (a) music clinic-workshop, (b) elementary music workshop, (c) chamber music institute. *May be repeated for credit, but credit may be applied to degree electives only once for each workshop.*

ZOOLOGY AND MICROBIOLOGY

Microbiology

411 General Microbiology (6)
Prereq: 10 hrs biological science; organic chemistry. (fall, winter) *S. Maier, R. Downey.* Properties of bacteria and other protists and their importance in our environment. Laboratory training in common bacteriological methods. 3 lec, 6 lab.

Graduate

ENGLISH LANGUAGE AND LITERATURE

555 English Education Workshop (1-5)
Prereq: teaching certificate or equiv or perm of instructor. Studies in principles, problems, approaches, and issues in teaching of English from elementary school to post-secondary. Topics determined according to need and demand.

INTERNATIONAL AFFAIRS

601 Seminar in Development (4)
An interdisciplinary investigation into selected problems of development. Intended to provide an interdisciplinary perspective into the nature of sociological, political, economic, and psychological change in Africa, Asia, and Latin America.
Staff;

INTERPERSONAL COMMUNICATION

600 Introduction to Graduate Study (5)
Definition of field of communication, methods of structuring field, and research concerns within areas of field. Examination of theory and function of research. Analysis of representative types and methods of research, including reporting results.
Staff.

640 Nonverbal Communication (5)
Prereq: perm. Survey of major theories and research areas in field of nonverbal communication. In-depth analysis of research in areas of student interest.
Staff.

LIBERAL STUDIES

501 Introduction to Interdisciplinary Studies (5)
Colloquium focusing on 2 questions raised in order to give direction to each student's academic pursuits: what kinds of knowledge are most worth having? — What are ways of integrating knowledge? Topics to be discussed: origin, nature and purpose of liberal education; modes of instruction used to acquire it; methodology and assumptions underlying various academic disciplines; history and philosophy of interdisciplinary studies. Compares and contrasts 4 theoretical modes of integrating knowledge: encyclopedic, historical, methodological, and conceptual.
Organ (philosophy), Quattrocki (English); Summer 1980.

Graduate

508 Decision-Making, Public and Private (5)
Explores problem of conflict between individual and institution in 20th century. Some questions to be discussed: How should individual reconcile demands of conflicting responsibilities to self, to family, to society? What can happen when public officials make decisions without accepting public accountability? To what extent should governmental policies express will of majority? Can satisfactory guidelines be established to balance government's need for secrecy and public's right to know?
Danner (modern languages) and staff; Summer 1980.

512 Ways of Meaning (5)
Course attempts to assess idea that differences among disciplines hinge on different sets of properties prominent in symbol systems (*i.e.*, languages) of different disciplines. Ways of discovering different properties which make semantic differences examined. Relation of language to what it is about and to its users examined with eye to how world views are differently decided.
Cappelletti (physics), Moates (psychology), Ruchti (philosophy); Summer 1980.

MUSIC

547B Varsity Band (2)
Prereq: perm; audition. *R. Socciarelli.*

547C University Singers (2)
Prereq: perm (audition). *I. Zook.*

576C Workshops and Institutes (1-4)
Prereq: perm. (a) music clinic-workshop, (b) elementary music workshop, (c) chamber music institute. *May be repeated for credit, but credit may be applied to degree electives only once for each workshop.*

ZOOLOGY AND MICROBIOLOGY

Microbiology

511 General Microbiology (6)
Prereq: perm. Properties of microorganisms and their importance in our environment. Laboratory training in common microbiological methods. 3 lec, 6 lab.
Maier, Downey; F, W; Y.

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at ________________ High School, and will graduate __________, 19____.

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employed as a ______________________________